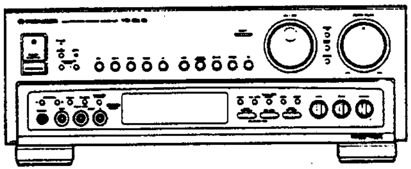
PIONEER®
The Art of Entertainment

Service Manual


The illustration shows model VSX-D903S

ORDER NO.
ARP2851

AUDIO/VIDEO STEREO RECEIVER

VSX-D903S

VSX-D933S VSX-D603S
VSX-53 VSX-D613S
VSX-D703S VSX-D633S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model							Power Requirement	The voltage can be converted by the following method.
	VSX-D903S	VSX-D933S	VSX-53	VSX-D703S	VSX-D603S	VSX-D613S	VSX-D633S		
KU	○	–	–	○	○	–	–	AC 120V	———
KC	○	–	–	–	–	○	–	AC 120V	———
KU/CA	–	–	○	–	–	–	–	AC 120V	———
SD	○	–	–	–	○	–	–	AC 110V/120-127V/220V/240V	With the voltage selector
HL	–	○	–	–	–	–	○	AC 220-230V	AC 240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power transformer referring to the "Line Voltage Selection" described in Service Manual.

- **For the following : VSX-D903S/KC and SD ; VSX-D933S/HL ; VSX-D603S/SD ; VSX-D613S/KC ; VSX-D633S/HL, refer to page 111.**

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

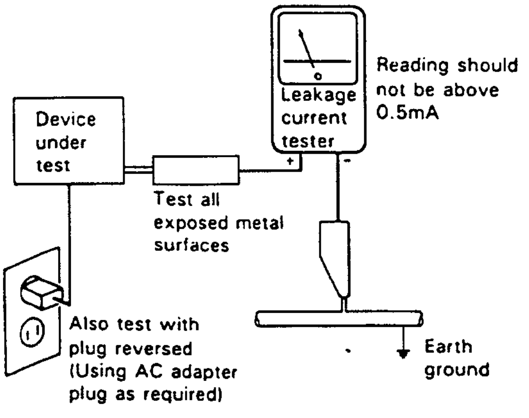
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
+
-
Device under test
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.
Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.
The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel or angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anveisning.
Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING!

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier.
Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

2. DISASSEMBLY

• Operation Check Procedure of POWER AMP ASSY

1. (This step is only performed for VSX-D903S and VSX-D933S.)
   Remove the shield case A for GUI assy and SR & S. TERMINAL assy. Move it toward the left side of the set with lead wires. (five screws and a rivet.)
2. Remove five binders (① – ⑤) in the position where the surrounding radiator.
3. Remove a lead Ⓐ of thermistor which soldering the CONNECTION assy.
4. Remove four screws to remove the radiator and four screws to remove the POWER AMP assy.
5. Stand the radiator with the POWER AMP assy on the chassis by setting the fan motor side toward the under, and perform the POWER AMP assy check.

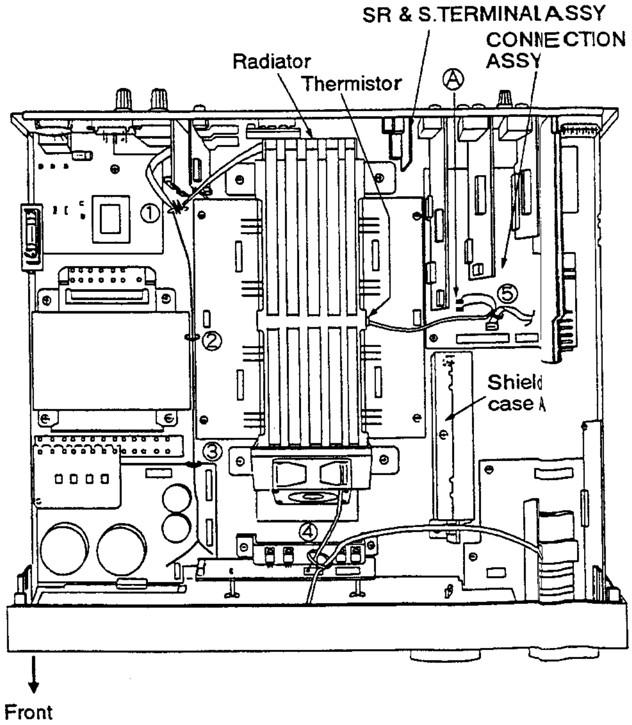


Fig. 1

3. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

• Parts List
(For VSX-D703S/KU and VSX-D603S/KU)

Mark	No.	Description	Part No.
NSP	1	TUNER ASSY	AWE1140
	2	POWER AMP ASSY	AWZ5402
	3	PRIM ASSY	AWZ5405
NSP	4	TRANS ASSY	AWZ5406
NSP	5	FRONT SP ASSY	AWZ5413
NSP	6	R.C. SP ASSY	AWZ5414
	7	REG ASSY	AWZ5415
	8	POWER SUPPLY ASSY	AWZ5437
NSP	9	R.C. MUTE ASSY	AWZ5707
	10	VOL ASSY	AWZ5421
	11	AUDIO FUNCTION ASSY	AWZ5422
	12	A/V FUNCTION ASSY (VSX-D703S)	AWZ5423
	12	A/V FUNCTION ASSY (VSX-D603S)	AWZ5429
	13	VIDEO FUNCTION ASSY (VSX-D703S)	AWZ5424
	13	VIDEO FUNCTION ASSY (VSX-D603S)	AWZ5430
	14	CONNECTION ASSY (VSX-D703S)	AWZ5425
	14	CONNECTION ASSY (VSX-D603S)	AWZ5428
	15	TONE ASSY	AWZ5426
	16	SR ASSY	AWZ5433
NSP	17	F.MUTE ASSY	AWZ5708
NSP	18	F.VIDEO ASSY (VSX-D703S ONLY)	AWZ5435
	19	FL U-COM ASSY (VSX-D703S)	AWZ5605
	19	FL U-COM ASSY (VSX-D603S)	AWZ5436
	20	PROLOGIC•SFC MODULE	AXQ1024
	21	• • • • •	
	22	• • • • •	
	23	• • • • •	
⚠	24	Q4 TRANSISTOR	2SA1302
⚠	25	Q6 TRANSISTOR	2SA1302
⚠	26	Q7 TRANSISTOR	2SC3181N
⚠	27	Q1 TRANSISTOR	2SC3281
⚠	28	Q2 TRANSISTOR	2SC3281
⚠	29	Q5 TRANSISTOR	2SC3281
⚠	30	Q8 TRANSISTOR	2SA1264N
⚠	31	Q3 TRANSISTOR	2SA1302
	32	TERMINAL SCREW	AKE-031
⚠	33	FU5, FU6 FUSE(1.6A, 125V)	AEK-121
⚠	34	FU3, FU4 FUSE(4A, 125V)	AEK-125
⚠	35	FU1 FUSE(10A, 125V)	AEK1035
⚠	36	AC POWER CORD	ADG1146
	37	J2 FLEXIBLE CABLE	ADD1134
	38	J1 FLEXIBLE FLAT CABLE	ADD1136
NSP	39	J3 SHIELD WIRE 5P (VSX-D703S ONLY)	ADX2096
⚠	40	FAN MOTOR	AXM1022
NSP	41	CHASSIS(MTL)	ANA1480
	42	REAR PANEL(VSX-D703S)	ANC2195
	42	REAR PANEL(VSX-D603S)	ANC2193
NSP	43	RADIATOR(AL)	ANH1494
	44	FOOT ASSY	AMR2414
	45	VOLUME HOLDER(MTL)	ANG1902
	46	L STYLE HOLDER(MTL)	ANG1903
	47	NYLON BINDER	AEC-093
NSP	48	PCB HOLDER	AEC1097
	49	PCB HOLDER	AEC1534
NSP	50	WIRE CLIP(VSX-D703S ONLY)	AEC1535
	51	MICA SHEET	AEE1014
⚠	52	AC CORD STOPPER	AEP-113
	53	BINDER	AEP-215
	54	RIVET(PLASTIC)	AMR1066
NSP	55	PCB MOULD	AMR1525
	56	FAN HOLDER(PLS)	AMR2638
NSP	57	PCB SUPPORT	AEC1013
	58	65 LABEL	ORW1069
	59	SCREW	ABA-298
	60	SCREW	ABA1009
	61	SCREW	ABA1018
	62	SCREW	ABA1053
	63	SCREW	ABA1082
	64	SCREW	BPZ26P080FMC
	65	SCREW	BPZ30P350FZK
	66	SCREW	FBT40P060FZK
	67	SCREW	VMZ30P060FCU
	68	CENTER PANEL(VSX-D703S)	AAK2570
	68	CENTER PANEL(VSX-D603S)	AAK2571
	69	DISPLAY PANEL(VSX-D703S)	AAK2573
	69	DISPLAY PANEL(VSX-D603S)	AAK2572
	70	IR FILTER(PLS)	AAK2575
	71	NAME PLATE(METAL)	AAM1058
	72	LED LENS(ABS)	PNW2019
	73	JOG DIAL(PLS)	AAB2224
	74	VOLUME KNOB(PLS)	AAB2225
	75	ROUND KNOB(PLS)	AAB2226
	76	FUNCTION BUTTON(PLS)	AAD2470

Mark	No.	Description	Part No.
	77	SELF LIGHT BUTTON B(PLS)	AAD2472
	78	MUTE BUTTON(PLS)	AAD4047
	79	ASC BUTTON(PLS)	AAD4049
	80	TX BUTTON(PLS)	AAD4050
	81	SP BUTTON(PLS) (VSX-D703S ONLY)	AAD4051
	82	POWER BUTTON(PLS)	AAD4052
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D703S)	ARB1478
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D603S)	ARB1477
NSP	84	GUI MODE BUTTON (VSX-D603S ONLY)	AAD4053
	85	REMOTE CONTROL UNIT (CU-VSX080)(VSX-D703S)	AXD1393
	85	REMOTE CONTROL UNIT (CU-VSX084)(VSX-D603S)	AXD1385
	86	FM ANTENNA	ADH1004
NSP	87	ALKALINE(LR6, AA) (VSX-D703S)	AEX1007
NSP	88	ALKALINE(LR03, AAA) (VSX-D603S)	AEX1006
	89	FRONT PAD(PS)	AHA2005
	90	REAR PAD(PS)	AHA2006
	91	PACKING CASE(VSX-D703S)	AHD2756
	91	PACKING CASE(VSX-D603S)	AHD2753
	92	PACKING SHEET	AHG1021
	93	BONNET CASE(MTL)	ANE1525
	94	BATTERY COVER(VSX-D703S)	AZN2091
	94	BATTERY COVER(VSX-D603S)	AZN2256
	95	FRONT PANEL(VSX-D703S)	AMB2489
	95	FRONT PANEL(VSX-D603S)	AMB2488
⚠	96	TH1 THERMISTOR	NTH2218F
⚠	97	T1 POWER TRANSFORMER	ATS1545
NSP	98	CUT OFF RAYS SEAT	AED1160
	99	SCREW	ABA1009
	100	LOOP ANTENNA ASSY	ATB1005

• Parts List
(For VSX-D903S/KU and VSX-53/KU/CA)

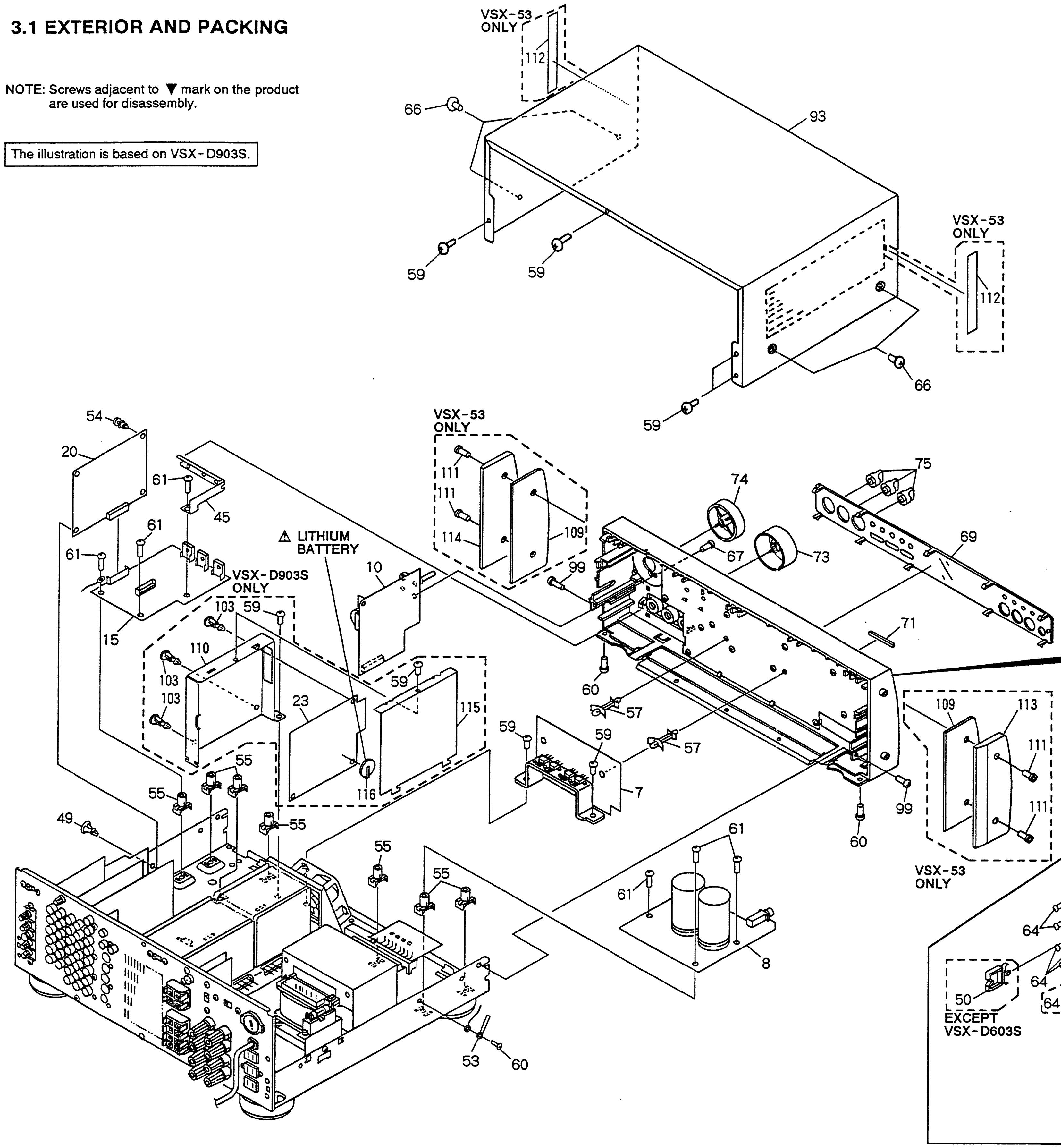
Mark	No.	Description	Part No.
NSP	1	TUNER ASSY	AWE1140
	2	POWER AMP ASSY	AWZ5402
	3	PRIM ASSY	AWZ5405
NSP	4	TRANS ASSY	AWZ5406
NSP	5	FRONT SP ASSY	AWZ5407
NSP	6	R.C.SP ASSY	AWZ5408
	7	REG ASSY(VSX-D903S)	AWZ5403
	7	REG ASSY(VSX-53)	AWZ5621
	8	POWER SUPPLY ASSY	AWZ5404
NSP	9	R.C.MUTE ASSY	AWZ5707
	10	VOL ASSY	AWZ5421
	11	AUDIO FUNCTION ASSY (VSX-D903S)	AWZ5416
	11	AUDIO FUNCTION ASSY (VSX-53)	AWZ5728
	12	A/V FUNCTION ASSY	AWZ5417
	13	VIDEO FUNCTION ASSY (VSX-D903S)	AWZ5418
	13	VIDEO FUNCTION ASSY (VSX-53)	AWZ5431
	14	CONNECTION ASSY(VSX-D903S)	AWZ5419
	14	CONNECTION ASSY(VSX-53)	AWZ5432
	15	TONE ASSY(VSX-D903S)	AWZ5420
	15	TONE ASSY(VSX-53)	AWZ5426
	16	• • • • •	
NSP	17	F.MUTE ASSY	AWZ5708
NSP	18	F.VIDEO ASSY	AWZ5435
	19	FL U-COM ASSY(VSX-D903S)	AWZ5434
	19	FL U-COM ASSY(VSX-53)	AWZ5438
	20	PROLOGIC•SFC MODULE	AXQ1029
NSP	21	SW ASSY	AWZ5412
NSP	22	SR & S.TERMINAL ASSY (VSX-D903S)	AWQ1024
NSP	22	SR & S.TERMINAL ASSY (VSX-53)	AWQ1026
NSP	23	GUI ASSY(VSX-D903S ONLY)	AWQ1025
⚠	24	Q4 TRANSISTOR	2SA1302
⚠	25	Q6 TRANSISTOR	2SA1302
⚠	26	Q7 TRANSISTOR	2SC3181N
⚠	27	Q1 TRANSISTOR	2SC3281
⚠	28	Q2 TRANSISTOR	2SC3281
⚠	29	Q5 TRANSISTOR	2SC3281
⚠	30	Q8 TRANSISTOR	2SA1264N
⚠	31	Q3 TRANSISTOR	2SA1302
	32	TERMINAL SCREW	AKE-031
⚠	33	FU5, FU6(1.6A, 125V)	AEK-121
⚠	34	FU3, FU4(4A, 125V)	AEK-125
⚠	35	FU1(10A, 125V)	AEK1035
⚠	36	AC POWER CORD	ADG1146
	37	J2 FLEXIBLE CABLE	ADD1134
	38	J1 FLEXIBLE FLAT CABLE	ADD1136
NSP	39	J3 SHIELD WIRE 5P	ADX2096
⚠	40	FAN MOTOR	AXM1022
NSP	41	CHASSIS(MTL)	ANA1480
	42	REAR PANEL(MTL)(VSX-D903S)	ANC2197

Mark	No.	Description	Part No.
	42	REAR PANEL(MTL)(VSX-53)	ANC2239
NSP	43	RADIATOR(AL)	ANH1494
	44	FOOT ASSY	AMR2414
	45	VOLUME HOLDER(MTL)	ANG1902
	46	L STYLE HOLDER(MTL)	ANG1903
	47	NYLON BINDER	AEC-093
NSP	48	PCB HOLDER	AEC1097
	49	PCB HOLDER	AEC1534
NSP	50	WIRE CLIP	AEC1535
	51	MICA SHEET	AEE1014
⚠	52	AC CORD STOPPER	AEP-113
	53	BINDER	AEP-215
	54	RIVET(PLASTIC)	AMR1066
NSP	55	PCB MOULD	AMR1525
	56	FAN HOLDER(PLS)	AMR2638
NSP	57	PCB SUPPORT	AEC1013
	58	65 LABEL	ORW1069
	59	SCREW	ABA-298
	60	SCREW(STEEL)	ABA1009
	61	SCREW	ABA1018
	62	SCREW(STEEL)	ABA1053
	63	SCREW	ABA1082
	64	SCREW	BPZ26P080FMC
	65	SCREW	BPZ30P350FZK
	66	SCREW(STEEL)	FBT40P060FZK
	67	SCREW	VMZ30P060FCU
	68	CENTER PANEL(PLS)	AAK2570
	69	DISPLAY PANEL(PLS) (VSX-D903S)	AAK2574
	69	DISPLAY PANEL(PLS)(VSX-53)	AAK2576
	70	IR FILTER(PLS)	AAK2575
	71	NAME PLATE(METAL)	AAM1058
	72	LED LENS	PNW2019
	73	JOG DIAL(PLS)	AAB2224
	74	VOLUME KNOB(PLS)	AAB2225
	75	ROUND KNOB	AAB2226
	76	FUNCTION BUTTON	AAD2470
	77	SELF LIGHT BUTTON B	AAD2472
	78	MUTE BUTTON(PLS)	AAD4047
	79	ASC BUTTON(PLS)	AAD4049
	80	TX BUTTON(PLS)	AAD4050
	81	SP BUTTON(PLS)	AAD4051
	82	POWER BUTTON(PLS)	AAD4052
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D903S)	ARB1489
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-53)	ARB1490
	84	GUI MODE BUTTON(PLS)	AAD4048
	85	REMOTE CONTROL UNIT (CU-VSX079)(VSX-D903S)	AXD1394
	85	REMOTE CONTROL UNIT (CU-VSX080)(VSX-53)	AXD1393
	86	FM ANTENNA	ADH1004
NSP	87	ALKALINE(LR6, AA)LR6	AEX1007
	88	• • • • •	
	89	FRONT PAD(PS)(VSX-D903S)	AHA2005
	89	FRONT PAD(PS)(VSX-53)	AHA2013
	90	REAR PAD(PS)(VSX-D903S)	AHA2006
	90	REAR PAD(PS)(VSX-53)	AHA2014
	91	PACKING CASE(VSX-D903S)	AHD2766
	91	PACKING CASE(VSX-53)	AHD2769
	92	PACKING SHEET	AHG1021
	93	BONNET CASE(MTL)	ANE1525
	94	BATTERY COVER	AZN2091
	95	FRONT PANEL(PLS) (VSX-D903S)	AMB2492
	95	FRONT PANEL(PLS)(VSX-53)	AMB2490
⚠	96	TH1 THERMISTOR	NTH2218F
⚠	97	T1 POWER TRANSFORMER	ATS1545
NSP	98	CUT OFF RAYS SEAT	AED1160
	99	SCREW(VSX-D903S)	ABA1009
	99	SCREW(VSX-53)	ABA1011
	100	LOOP ANTENNA ASSY	ATB1005
NSP	101	TUNER CASE(MTL) (VSX-D903S ONLY)	ANK1217
NSP	102	SPACER	AEC1288
NSP	103	SPACER(VSX-D903S ONLY)	AEC1360
⚠	104	R1 RESISTOR	ACN1111
	105	INSULATING PLATE	AMR2672
	106	SCREW	VMZ26P040FZK
	107	ESCUTCHEON(VSX-D903S ONLY)	AAK2585
	108	SELF-LIGHT RING (VSX-D903S ONLY)	AAK2586
	109	SIDE PLATE(RUB) (VSX-53 ONLY)	AAP1479
	110	SHIELD CASE A(MTL) (VSX-D903S ONLY)	ANG1926
	111	SCREW(VSX-53 ONLY)	ABA1148
NSP	112	SPACER(VSX-53 ONLY)	AEC1430
	113	SIDE PANEL L(PLS) (VSX-53 ONLY)	AMR2661
	114	SIDE PANEL R(PLS) (VSX-53 ONLY)	AMR2662
	115	SHIELD CASE B(MTL) (VSX-D903S ONLY)	ANG1927
⚠	116	LITHIUM BATTERY (VSX-D903S ONLY)	AEX1020

3.1 EXTERIOR AND PACKING

NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.

The illustration is based on VSX-D903S.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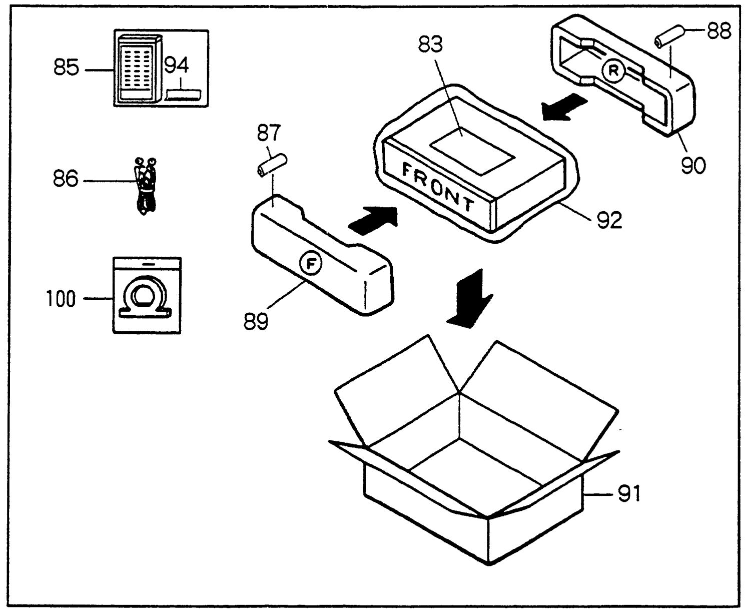
• PACKING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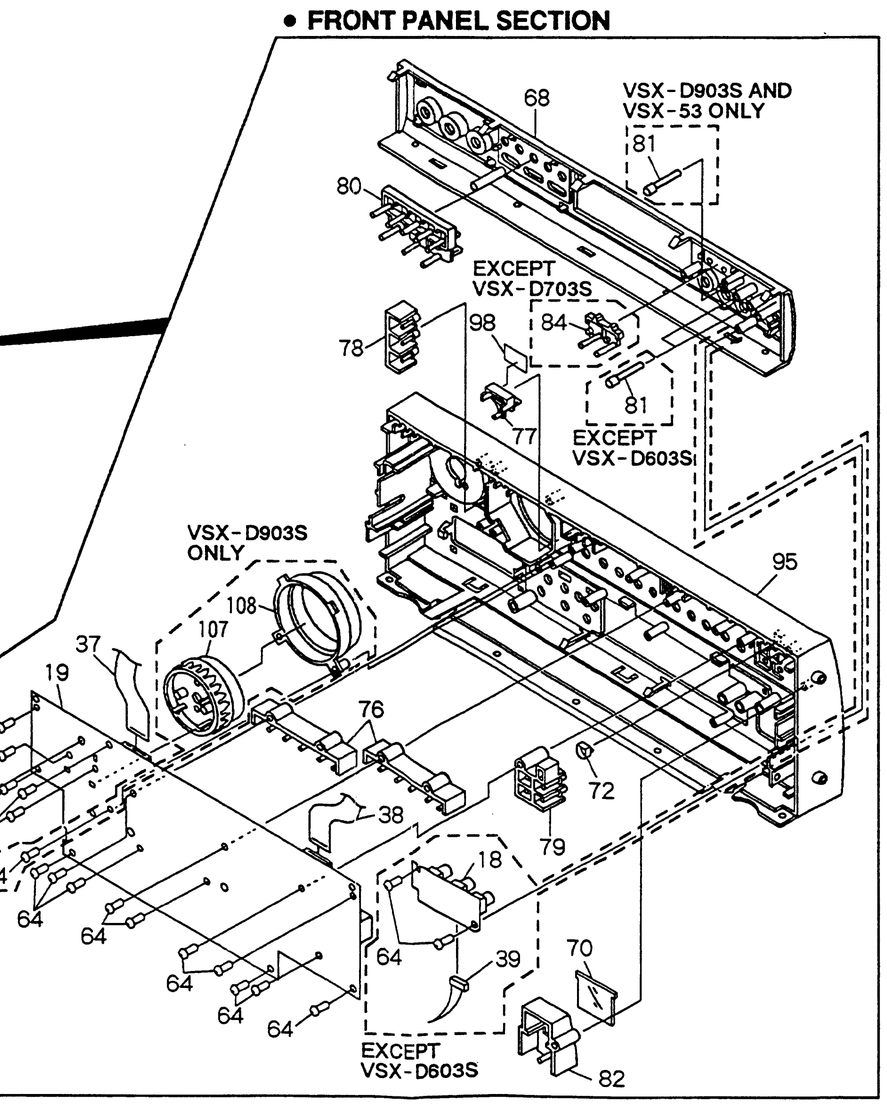
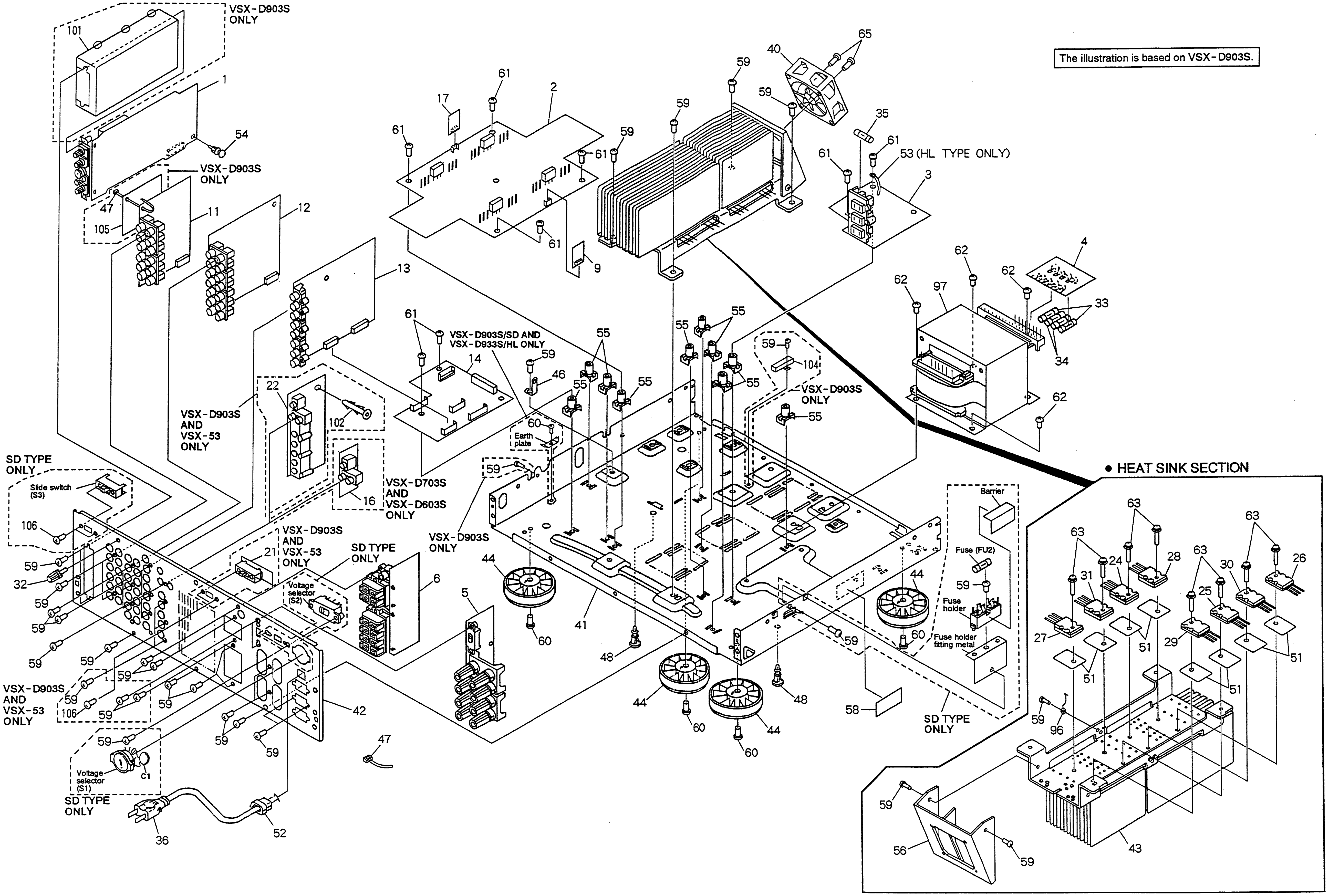
91

• FRONT PANEL SECTION


68
VSX-D903S AND VSX-53 ONLY
81
80
EXCEPT VSX-D703S
98
84
78
77
81
EXCEPT VSX-D603S
95
VSX-D903S ONLY
108
107
37
19
76
64
72
38
79
50
EXCEPT VSX-D603S
64
64
64
64
64
64
64
18
39
70
EXCEPT VSX-D603S
82

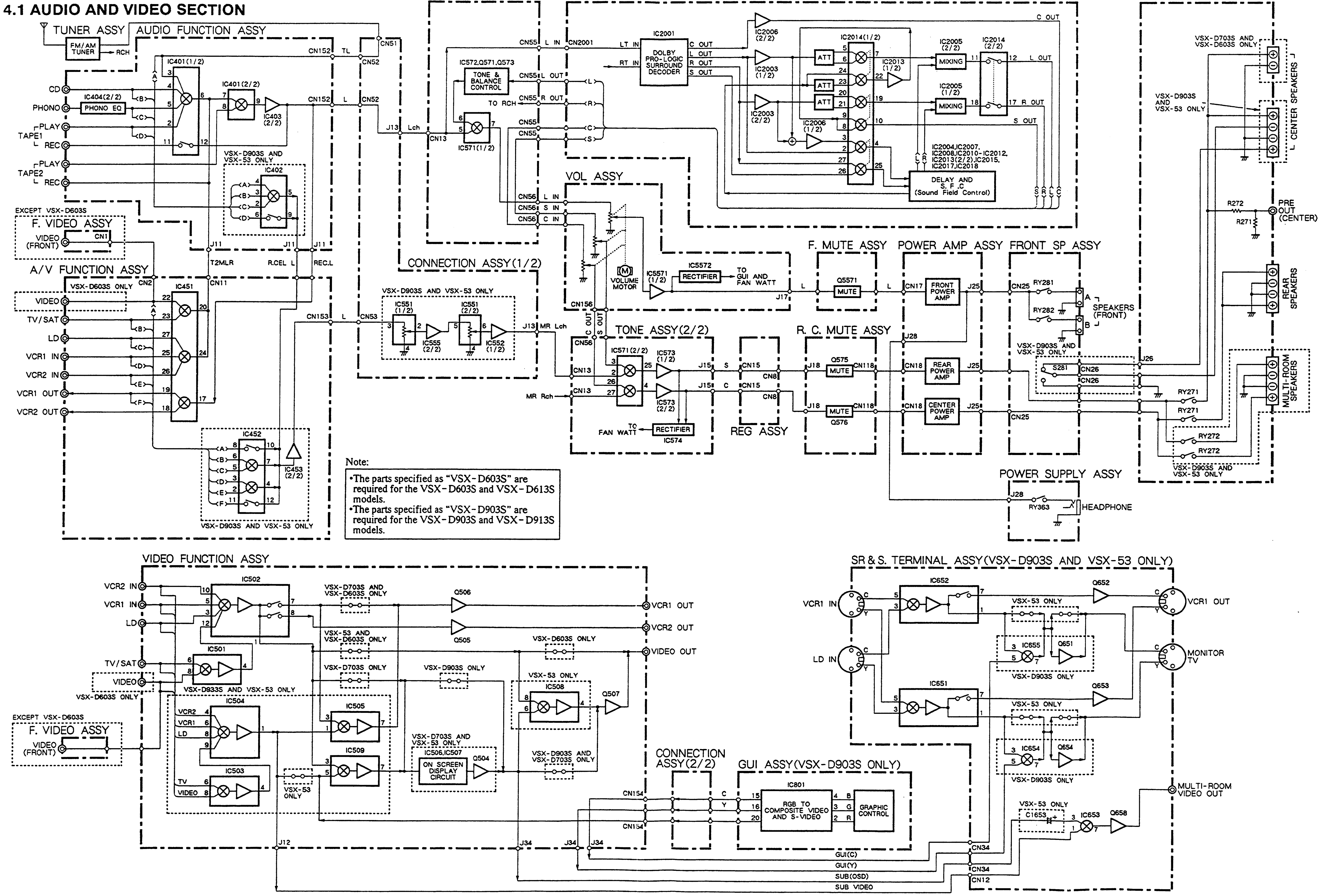
3.2 INTERIOR

The illustration is based on VSX-D903S.


VSX-D903S ONLY
101
1
54
VSX-D903S ONLY
47
105
11
12
13
17
61
2
61
61
61
9
59
59
59
59
40
65
35
61
61
53 (HL TYPE ONLY)
3
4
62
62
97
62
33
34
62
61
VSX-D903S/SD AND VSX-D933S/HL ONLY
14
59
46
55
55
55
55
55
55
55
59
104
VSX-D903S ONLY
55
22
102
VSX-D903S AND VSX-53 ONLY
60
Earth plate
59
16
VSX-D703S AND VSX-D603S ONLY
VSX-D903S ONLY
SD TYPE ONLY
Slide switch (S3)
106
59
32
59
59
59
59
VSX-D903S AND VSX-53 ONLY
21
SD TYPE ONLY
Voltage selector (S2)
6
5
44
60
41
48
44
60
44
48
60
59
Barrier
Fuse (FU2)
59
Fuse holder
Fuse holder fitting metal
60
58
SD TYPE ONLY
VSX-D903S AND VSX-53 ONLY
59
106
59
59
59
42
59
59
59
47
Voltage selector (S1)
C1
SD TYPE ONLY
36
52
HEAT SINK SECTION
63
63
63
63
24
28
26
31
25
30
27
29
51
51
51
51
51
59
96
59
56
59
43

4. BLOCK DIAGRAMS

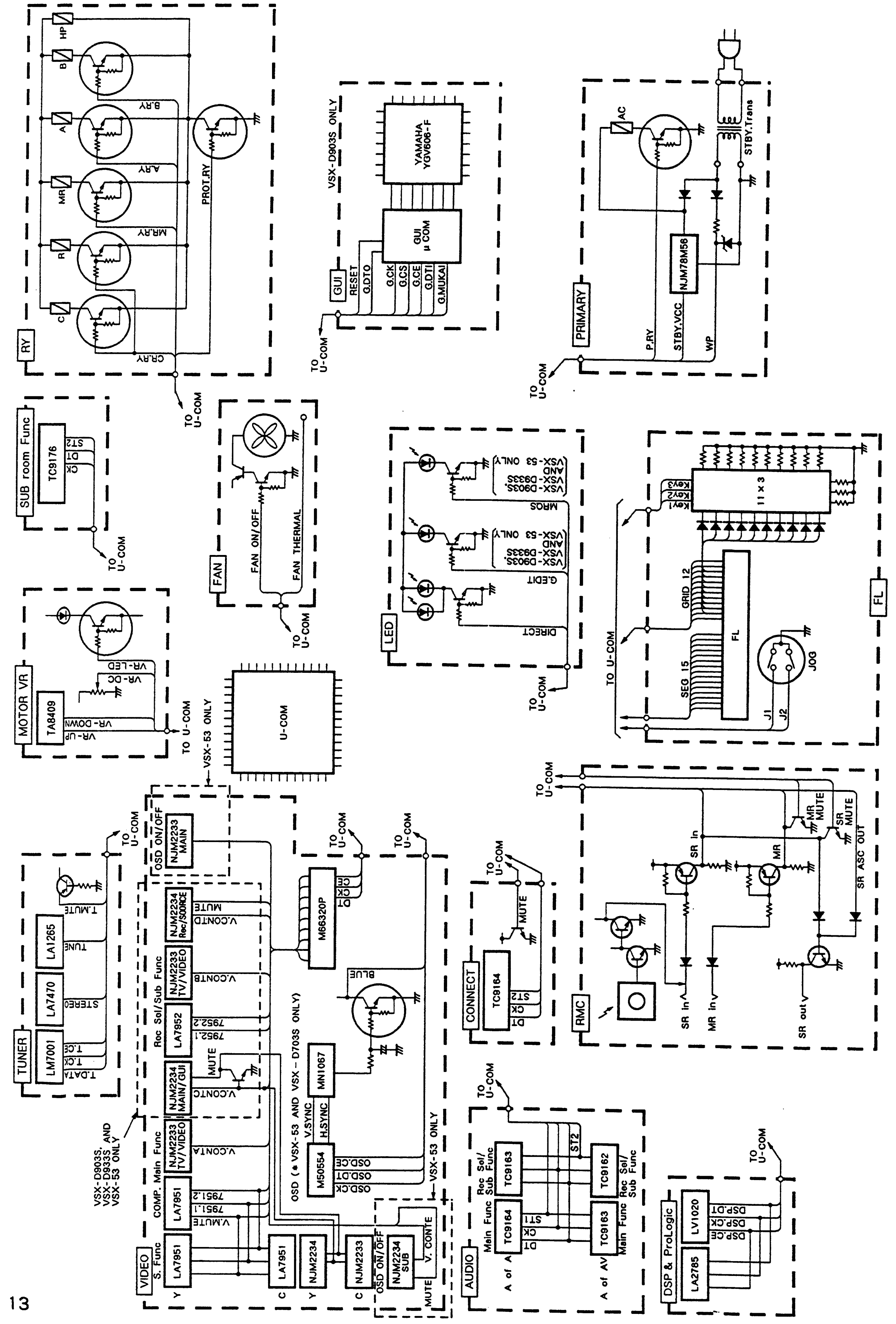
4.1 AUDIO AND VIDEO SECTION


TUNER ASSY
FM/AM TUNER
RCH
AUDIO FUNCTION ASSY
CD
PHONO
PHONO EQ
IC404(2/2)
IC401(1/2)
IC401(2/2)
IC403 (2/2)
TAPE1 PLAY
REC
TAPE2 PLAY
REC
VSX-D903S AND VSX-53 ONLY
IC402
CN152
CN51
CN52
TL
L
J13
Lch
J11
T2MLR
R.CEL
REC.L
EXCEPT VSX-D603S
F. VIDEO ASSY
VIDEO (FRONT)
CN1
A/V FUNCTION ASSY
VSX-D603S ONLY
CN2
CN11
IC451
VIDEO
TV/SAT
LD
VCR1 IN
VCR2 IN
VCR1 OUT
VCR2 OUT
IC452
IC453 (2/2)
VSX-D903S AND VSX-53 ONLY
CN153
CN53
TONE ASSY(1/2)
IC572,Q571,Q573
TONE & BALANCE CONTROL
IC571(1/2)
CN13
CN55
L IN
L OUT
R OUT
TO RCH
CN56
S IN
C IN
CONNECTION ASSY(1/2)
VSX-D903S AND VSX-53 ONLY
IC551 (1/2)
IC551 (2/2)
IC555 (2/2)
IC552 (1/2)
J13
MR Lch
MR Rch
PROLOGIC · SFC MODULE
CN2001
LT IN
RT IN
IC2001
DOLBY PRO-LOGIC SURROUND DECODER
C OUT
L OUT
R OUT
S OUT
IC2006 (2/2)
IC2003 (1/2)
IC2003 (2/2)
IC2006 (1/2)
IC2014(1/2)
ATT
IC2013 (1/2)
IC2005 (2/2)
IC2005 (1/2)
MIXING
IC2014 (2/2)
DELAY AND S. F. C (Sound Field Control)
IC2004,IC2007, IC2008,IC2010-IC2012, IC2013(2/2),IC2015, IC2017,IC2018
VOL ASSY
VOLUME MOTOR
IC5571 (1/2)
IC5572
RECTIFIER
TO GUI AND FAN WATT
CN156
J17
C OUT
S OUT
TONE ASSY(2/2)
IC571(2/2)
IC573 (1/2)
IC573 (2/2)
J15
CN15
TO FAN WATT
RECTIFIER
IC574
REG ASSY
CN8
F. MUTE ASSY
Q5571
MUTE
R. C. MUTE ASSY
J18
Q575
Q576
CN118
POWER AMP ASSY
CN17
FRONT POWER AMP
REAR POWER AMP
CENTER POWER AMP
J25
J28
CN18
FRONT SP ASSY
CN25
RY281
RY282
SPEAKERS (FRONT)
A
B
VSX-D903S AND VSX-53 ONLY
S281
CN26
POWER SUPPLY ASSY
RY363
HEADPHONE
R. C. SP ASSY
VSX-D703S AND VSX-D603S ONLY
VSX-D903S AND VSX-53 ONLY
CENTER SPEAKERS
R272
R271
PRE OUT (CENTER)
REAR SPEAKERS
MULTI-ROOM SPEAKERS
RY271
RY272
J26
VIDEO FUNCTION ASSY
VCR2 IN
VCR1 IN
LD
TV/SAT
VIDEO
VSX-D603S ONLY
IC502
IC501
VSX-D703S AND VSX-D603S ONLY
Q506
Q505
VSX-53 AND VSX-D603S ONLY
VSX-D703S ONLY
VSX-D903S ONLY
VSX-D933S AND VSX-53 ONLY
IC504
IC503
IC505
IC509
VSX-53 ONLY
IC508
Q507
VSX-D703S AND VSX-53 ONLY
IC506,IC507
ON SCREEN DISPLAY CIRCUIT
Q504
VSX-D903S AND VSX-D703S ONLY
VCR1 OUT
VCR2 OUT
VIDEO OUT
EXCEPT VSX-D603S
F. VIDEO ASSY
VIDEO (FRONT)
J12
J34
CN154
CONNECTION ASSY(2/2)
GUI ASSY(VSX-D903S ONLY)
IC801
RGB TO COMPOSITE VIDEO AND S-VIDEO
GRAPHIC CONTROL
GUI(C)
GUI(Y)
SUB(OSD)
SUB VIDEO
CN34
CN12
SR & S. TERMINAL ASSY(VSX-D903S AND VSX-53 ONLY)
VCR1 IN
LD IN
IC652
IC651
Q652
Q653
IC655
Q651
IC654
Q654
VSX-53 ONLY
VSX-D903S ONLY
VCR1 OUT
MONITOR TV
C1653
IC653
Q658
MULTI-ROOM VIDEO OUT

Note:

- The parts specified as "VSX-D603S" are required for the VSX-D603S and VSX-D613S models.
- The parts specified as "VSX-D903S" are required for the VSX-D903S and VSX-D913S models.

4.2 MICROCOMPUTER SECTION


RY
HP
B
A
MR
R
C
B.RY
A.RY
MR.RY
CR.RY
PROT.RY
TO U-COM
GUI
RESET
G.DTO
G.CK
G.CS
G.CE
G.DTI
G.MUKAI
YAMAHA YGV606-F
GUI µCOM
VSX-D903S ONLY
PRIMARY
AC
STBY.Trans
NJM78M56
P.RY
STBY.VCC
WP
SUB room Func
TC9176
ST2
DI
CK
FAN
FAN ON/OFF
FAN THERMAL
LED
VSX-D903S, VSX-D933S AND VSX-53 ONLY
SMOS
Q.EDIT
DIRECT
FL
Key1
Key2
Key3
11×3
GRID 12
SEG 15
J1
J2
JOG
MOTOR VR
TA8409
VR-LED
VR-DC
VR-DOWN
VR-UP
TO U-COM
VSX-53 ONLY
U-COM
TUNER
LA1265
LA7470
LM7001
T.MUTE
TUNE
STEREO
T.CE
T.CK
T.DATA
Rec Sel/Sub Func
OSD ON/OFF
NJM2233 MAIN
NJM2234 Rec/SOURCE
NJM2233 TV/VIDEO
LA7952
NJM2234 MAIN/GUI
MUTE
V.CONTD
V.CONTB
V.CONTC
V.CONTA
7952.2
7952.1
BLUE
M66320P
CE
CK
DT
MN1067
OSD (● VSX-53 AND VSX-D703S ONLY)
V.SYNC
H.SYNC
M50554
OSD.CE
OSD.DT
OSD.CK
COMP. Main Func
NJM2233 TV/VIDEO
LA7951
7951.2
7951.1
V.MUTE
VIDEO
S. Func
Y
C
LA7951
NJM2234
NJM2233
NJM2234 SUB
V. CONTE
VSX-D903S, VSX-D933S AND VSX-53 ONLY
CONNECT
TC9164
ST2
CK
DT
RMC
SR In
MR
MR MUTE
SR MUTE
SR ASC OUT
MR In
SR out
AUDIO
Main Func
Rec Sel/Sub Func
TC9163
TC9164
TC9162
TC9163
ST1
ST2
A of A
A of AV
DSP & ProLogic
LV1020
LA2785
DSP.DT
DSP.CK
DSP.CE

5. SCHEMATIC AND PCB DIAGRAMS

NOTE FOR SCHEMATIC DIAGRAMS

Type 1A

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**

2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**

3. **RESISTORS:**
Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance:(F):±1%, (G):±2%, (K):±10%, (M):±20% or ±5% unless otherwise noted.

4. **CAPACITORS:**
Unit: p:pF or µF unless otherwise noted.
Ratings: capacitor (µF) / voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. **COILS:**
Unit: m:mH or µH unless otherwise noted.

6. **VOLTAGE AND CURRENT:**
V : Signal voltage at rated output. (AMPLIFIER SECTION)
mV : Signal voltage at FM 1kHz, 100% MOD. (TUNER SECTION)
□ or ← V :
DC voltage (V) at no input signal unless otherwise noted.
Value in ( ) is DC voltage at rated power.
⇐ mA or ← mA :
DC current at no input signal unless otherwise noted.

7. **OTHERS:**
- ⊘ or ⊘ : Adjusting point.
- ◀ : Measurement point.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. **SCH - □ ON THE SCHEMATIC DIAGRAM:**
- SCH- □ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. **SWITCHES** (Underline indicates switch position):

OUT OF PCB ASSY
(SD TYPE ONLY)
S1 : VOLTAGE SELECTOR
(AC110V/120-127V/220V/240V)
S2 : VOLTAGE SELECTOR
(AC110V, 120-127V/220V, 240V)
S3 : CHANNEL STEP/FM DE-EMPHASIS
(FM 50kHz/50 µS, AM 9kHz) —— (FM 100kHz/75 µS, AM 10kHz)

FRONT SP ASSY(VSX-D903S AND VSX-53 ONLY)
S281 : CENTER SPEAKER SELECTOR

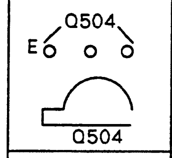
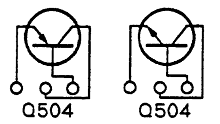
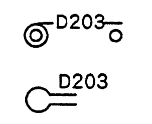
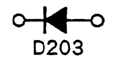
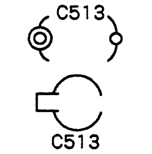
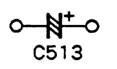
SW ASSY(VSX-D903S AND VSX-53 ONLY)
S111 : FRONT SPEAKERS IMLEDANCE SELECTOR

(VSX-D903S AND VSX-53)
FL U-COM ASSY
S701 : VCR 2
S702 : POWER STANDBY/ON
S703 : MUTING
S704 : VIDEO
S705 : MEMORY
S706 : SUPER BASS
S707 : TV/SAT
S708 : 1(AUTO SOURCE CONTROL)
S709 : RETURN
S710 : RESET
S711 : LD
S712 : 2(AUTO SOURCE CONTROL)
S713 : SELECT(TUNING MODE)
S714 : TAPE 1
S715 : SPEAKERS A
S716 : ENTER(TUNIG MODE)
S717 : TAPE 2 MONITOR
S718 : SPEAKERS B
S719 : MEMORY(TUNIG MODE)
S720 : PHONO
S721 : REC SEL
S722 : MPX MODE(TUNIG MODE)
S723 : TUNER
S724 : GUI MODE (VSX-D903S)
S724 : OSD SUB ROOM (VSX-53)
S725 : FM/AM(TUNIG MODE)
S726 : CD
S727 : MULTI-ROOM & SOURCE
S728 : DOLBY 3CH LOGIC
S729 : DIRECT
S730 : VCR 1
S731 : DSP(SORROUND MODE)
S732 : DOLBY PRO-LOGIC
(SORROUND MODE)
S733 : MULTI JOG

(VSX-D703S AND VSX-D603S)
FL U-COM ASSY
S701 : VCR 2
S702 : POWER STANDBY/ON
S703 : MUTING
S704 : VIDEO
S705 : MEMORY
S706 : SUPER BASS
S707 : TV/SAT
S708 : 1(AUTO SOURCE CONTROL)
S709 : RETURN
S710 : RESET
S711 : LD
S712 : 2(AUTO SOURCE CONTROL)
S713 : SELECT(TUNING MODE)
S714 : TAPE 1
S715 : SPEAKERS A
(VSX-D703S ONLY)
S716 : ENTER(TUNIG MODE)
S717 : TAPE 2
S718 : SPEAKERS B
(VSX-D703S ONLY)
S719 : MEMORY(TUNIG MODE)
S720 : PHONO
S722 : MPX MODE(TUNIG MODE)
S723 : TUNER
S724 : SPEAKERS A
(VSX-D603S ONLY)
S725 : FM/AM(TUNIG MODE)
S726 : CD
S727 : SPEAKERS A
(VSX-D603S ONLY)
S728 : DOLBY 3CH LOGIC
S729 : DIRECT
S730 : VCR 1
S731 : DSP(SORROUND MODE)
S732 : DOLBY PRO-LOGIC
(SORROUND MODE)
S733 : TUNER JOG

NOTE FOR PCB DIAGRAMS:

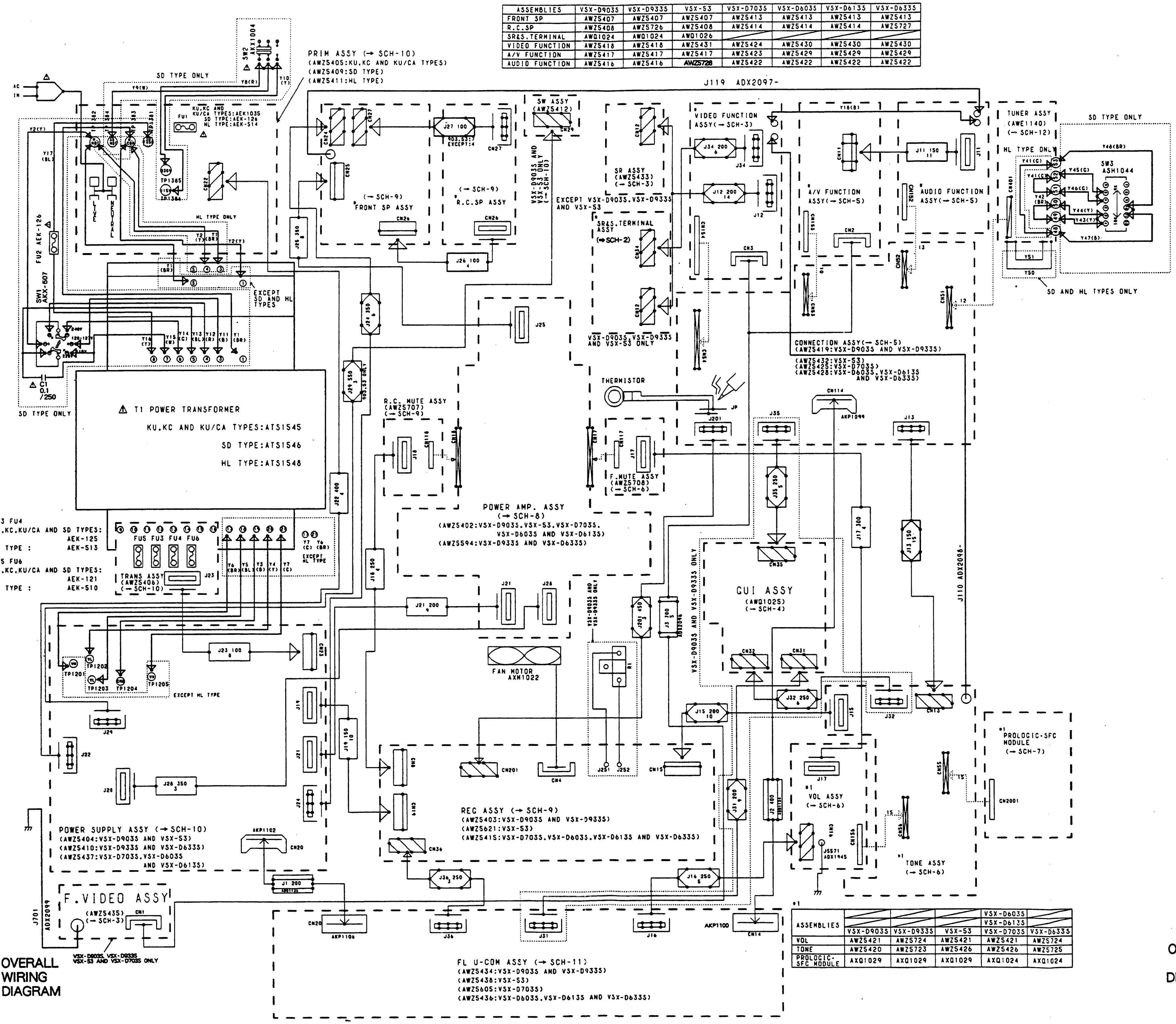
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Diode
		Capacitor (Polarized)

3. The transistor terminal marked with E or [shows the emitter.
4. The diode terminal marked with ◎ or ⊂ shows cathode side.
5. The capacitor terminal marked with ◎ or [shows negative terminal.

5.1 OVERALL WIRING DIAGRAM

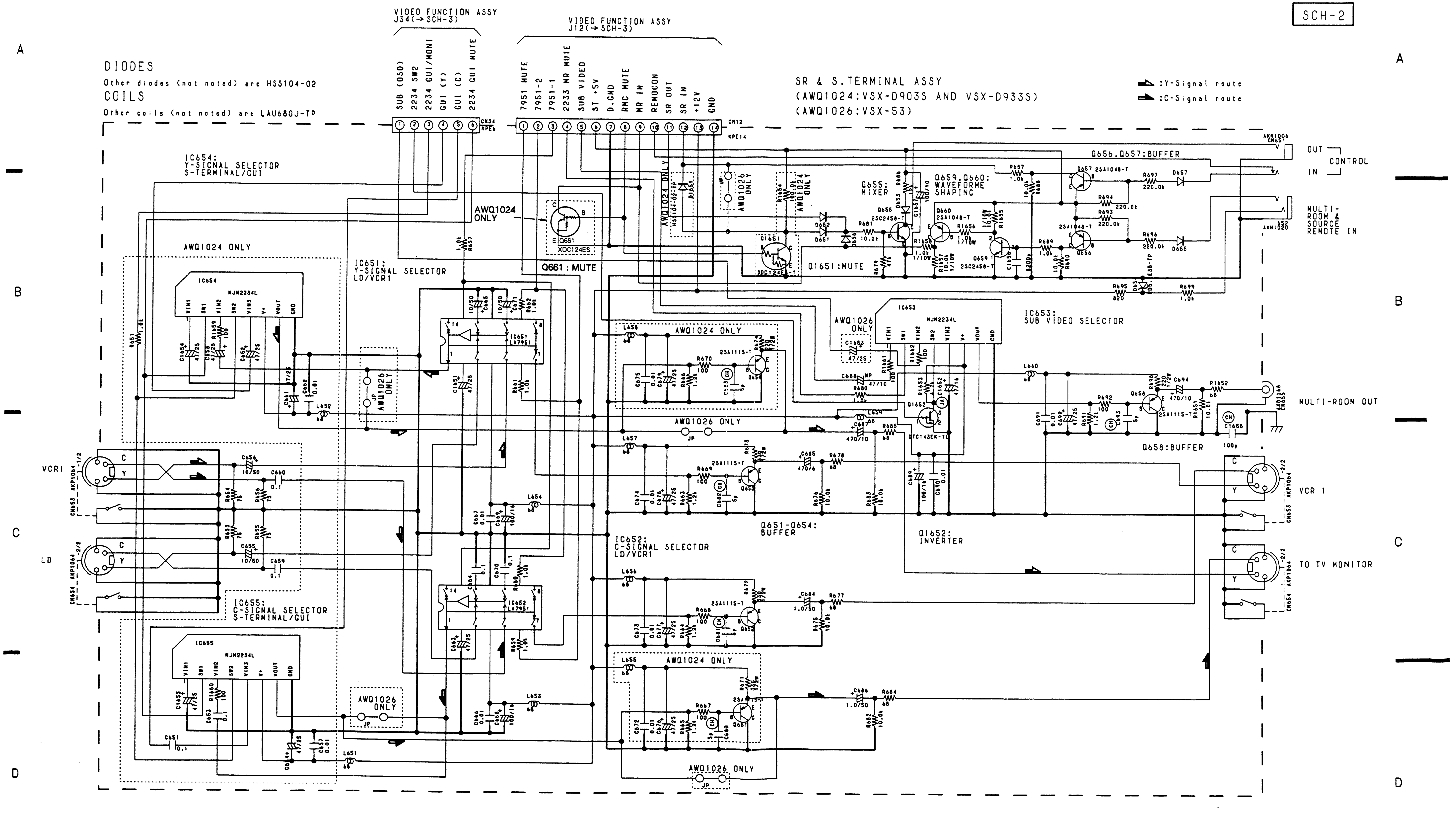
ASSEMBLIES	VSX-D903S	VSX-D933S	VSX-53	VSX-D703S	VSX-D603S	VSX-D613S	VSX-D633S
FRONT SP	AWZ5407	AWZ5407	AWZ5407	AWZ5413	AWZ5413	AWZ5413	AWZ5413
R.C.SP	AWZ5408	AWZ5726	AWZ5408	AWZ5414	AWZ5414	AWZ5414	AWZ5727
SR&S.TERMINAL	AWQ1024	AWQ1024	AWQ1026				
VIDEO FUNCTION	AWZ5418	AWZ5418	AWZ5431	AWZ5424	AWZ5430	AWZ5430	AWZ5430
A/V FUNCTION	AWZ5417	AWZ5417	AWZ5417	AWZ5423	AWZ5429	AWZ5429	AWZ5429
AUDIO FUNCTION	AWZ5416	AWZ5416	AWZ5728	AWZ5422	AWZ5422	AWZ5422	AWZ5422


A
B
C
D
AC
IN
SD TYPE ONLY
SW2 AKX1004
Y8(R)
Y9(W)
Y10 (Y)
PRIM ASSY (→ SCH-10)
(AWZ5405:KU,KC AND KU/CA TYPES)
(AWZ5409:SD TYPE)
(AWZ5411:HL TYPE)
FU1
KU,KC AND KU/CA TYPES:AEK1035
SD TYPE:AEK-126
HL TYPE:AEK-514
TP1382
TP1384
TP1383
TP1381
230V
TP1385
115V
TP1384
Y2(Y)
Y17 (BL)
LIVE
NEUTRAL
CN22
HL TYPE ONLY
Y2 (Y)
Y1 (BR)
Y2(Y)
Y1 (BR)
EXCEPT SD AND HL TYPES
FU2 AEK-126
SW1 AKX-607
240V
120-127V
110V
220V
Y16 (Y)
Y15 (W)
Y14 (C)
Y13 (BL)
Y12 (R)
Y11 (B)
Y1 (BR)
C1 0.1 /250
SD TYPE ONLY
T1 POWER TRANSFORMER
KU,KC AND KU/CA TYPES:ATS1545
SD TYPE:ATS1546
HL TYPE:ATS1548
CN24
CN27
J27 100
903,53:7
EXCEPT:4
CN27
CN25
(→ SCH-9)
FRONT SP ASSY
(→ SCH-9)
R.C.SP ASSY
CN26
CN26
J26 100 4
J25 350 8
J24 350 6
J29 550 3
903,53 ONLY
SW ASSY (AWZ5412)
CN29
VSX-D903S AND VSX-53 ONLY (→ SCH-10)
EXCEPT VSX-D903S,VSX-D933S AND VSX-53
SR ASSY (AWZ5433) (→ SCH-3)
CN12
SR&S.TERMINAL ASSY (→SCH-2)
CN34
CN12
VSX-D903S,VSX-D933S AND VSX-53 ONLY
J25
J119 ADX2097-
VIDEO FUNCTION ASSY(→ SCH-3)
J34 200 6
J34
J12 200 14
J12
CN154
CN3
CN54
Y18(B)
CN11
J11 150 11
J11
A/V FUNCTION ASSY(→ SCH-5)
CN153
CN2
CN53
AUDIO FUNCTION ASSY(→ SCH-5)
CN152
CN52
CN51
10
13
12
TUNER ASSY (AWE1140) (→ SCH-12)
HL TYPE ONLY
CN401
Y41(C)
Y45(C)
Y46(C)
Y42 (BR)
Y44(Y)
Y43(Y)
Y47(B)
Y48(BR)
SW3 ASH1044
SD TYPE ONLY
Y51
Y50
SD AND HL TYPES ONLY
CONNECTION ASSY(→ SCH-5)
(AWZ5419:VSX-D903S AND VSX-D933S)
(AWZ5432:VSX-53)
(AWZ5425:VSX-D703S)
(AWZ5428:VSX-D603S,VSX-D613S AND VSX-D633S)
THERMISTOR
JP
J201
J35
CN114
AKP1099
J13
R.C. MUTE ASSY (AWZ5707) (→ SCH-9)
J18
CN118
CN18
CN17
CN117
J17
F.MUTE ASSY (AWZ5708) (→ SCH-6)
POWER AMP. ASSY (→ SCH-8)
(AWZ5402:VSX-D903S,VSX-53,VSX-D703S, VSX-D603S AND VSX-D613S)
(AWZ5594:VSX-D933S AND VSX-D633S)
J22 400 4
J18 250 4
J35 250 5
J17 300 4
J13 150 15
J110 ADX2098-
FU3 FU4
KU,KC,KU/CA AND SD TYPES: AEK-125
HL TYPE : AEK-513
FU5 FU6
KU,KC,KU/CA AND SD TYPES: AEK-121
HL TYPE : AEK-510
FU5 FU3 FU4 FU6
TRANS ASSY (AWZ5406) (→ SCH-10)
J23
Y6 (BR)
Y5 (BL)
Y3 (B)
Y4 (Y)
Y7 (C)
Y7 (C)
Y6 (BR)
EXCEPT HL TYPE
J21 200 9
J21
J26
VSX-D903S AND VSX-D933S ONLY
J201 450 3
J3 700 5
ADX2096
VSX-D903S AND VSX-D933S ONLY
GUI ASSY (AWQ1025) (→ SCH-4)
CN35
CN32
CN31
J23 100 8
CN23
TP1201
TP1202
TP1203
TP1204
TP1205
EXCEPT HL TYPE
FAN MOTOR AXM1022
R1
J29
J22
J19
J19 150 10
J21
J24
J28
J28 350 3
J15 200 10
J32 250 6
J15
J32
CN13
CN8
CN19
CN201
CN4
J251
J252
CN15
CN36
REC ASSY (→ SCH-9)
(AWZ5403:VSX-D903S AND VSX-D933S)
(AWZ5621:VSX-53)
(AWZ5415:VSX-D703S,VSX-D603S,VSX-D613S AND VSX-D633S)
J31 200 9
J2 400
J17
*1 VOL ASSY (→ SCH-6)
CN18
JS571 ADX1945
CN156
CN56
CN55
15
15
*1 TONE ASSY (→ SCH-6)
*1 PROLOGIC-SFC MODULE (→ SCH-7)
CN2001
POWER SUPPLY ASSY (→ SCH-10)
(AWZ5404:VSX-D903S AND VSX-53)
(AWZ5410:VSX-D933S AND VSX-D633S)
(AWZ5437:VSX-D703S,VSX-D603S AND VSX-D613S)
AKP1102
CN20
J1 200
J36 250 3
J16 250 5
J701 ADX2099
F.VIDEO ASSY
(AWZ5435) (→ SCH-3)
CN1
VSX-D903S, VSX-D933S VSX-53 AND VSX-D703S ONLY
CN20
AKP1106
J36
J31
J16
AKP1100
CN14
FL U-COM ASSY (→ SCH-11)
(AWZ5434:VSX-D903S AND VSX-D933S)
(AWZ5438:VSX-53)
(AWZ5605:VSX-D703S)
(AWZ5436:VSX-D603S,VSX-D613S AND VSX-D633S)

*1

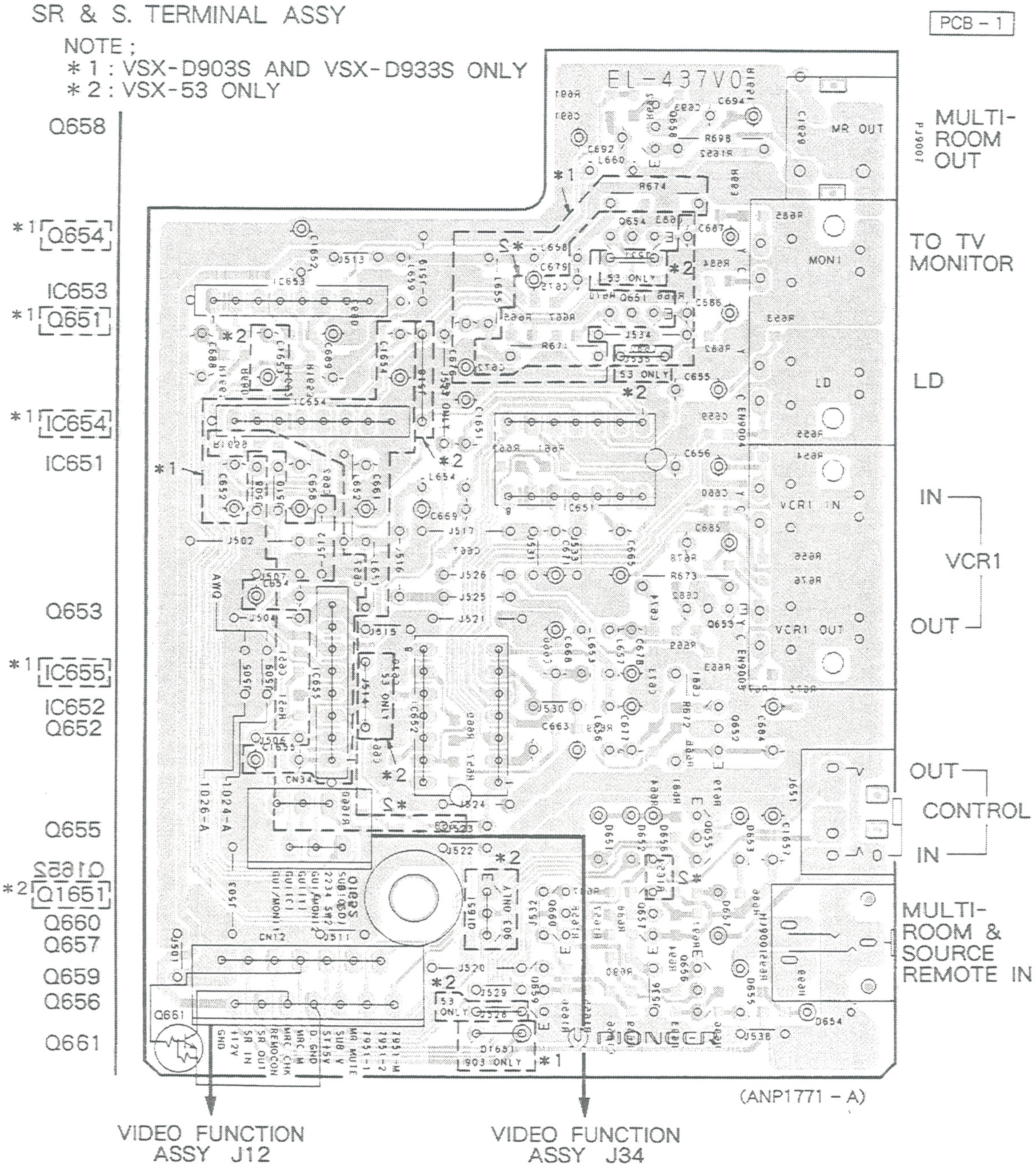
ASSEMBLIES	VSX-D903S	VSX-D933S	VSX-53	VSX-D603S VSX-D613S VSX-D703S	VSX-D633S
VOL	AWZ5421	AWZ5724	AWZ5421	AWZ5421	AWZ5724
TONE	AWZ5420	AWZ5723	AWZ5426	AWZ5426	AWZ5725
PROLOGIC-SFC MODULE	AXQ1029	AXQ1029	AXQ1029	AXQ1024	AXQ1024

5.2 SR & S. TERMINAL ASSY


SCH-2
VIDEO FUNCTION ASSY J34(→ SCH-3)
VIDEO FUNCTION ASSY J12(→ SCH-3)
DIODES
Other diodes (not noted) are HSS104-02
COILS
Other coils (not noted) are LAU680J-TP
SUB (OSD)
2234 SW2
2234 GUI/MONI
GUI (Y)
GUI (C)
2234 GUI MUTE
CN34 KPE6
7951 MUTE
7951-2
7951-1
2233 MR MUTE
SUB VIDEO
ST +5V
D.GND
RMC MUTE
MR IN
REMOCON
SR OUT
SR IN
+12V
GND
CN12 KPE14
SR & S.TERMINAL ASSY
(AWQ1024:VSX-D903S AND VSX-D933S)
(AWQ1026:VSX-53)
:Y-Signal route
:C-Signal route
IC654: Y-SIGNAL SELECTOR S-TERMINAL/GUI
AWQ1024 ONLY
Q661 XDC124ES
Q661 : MUTE
IC651: Y-SIGNAL SELECTOR LD/VCR1
IC654 NJM2234L
AWQ1026 ONLY
Q655: MIXER
Q659,Q660: WAVEFORME SHAPING
Q656,Q657:BUFFER
Q1651:MUTE
AKN1006 CN651
OUT
CONTROL
IN
MULTI-ROOM & SOURCE REMOTE IN
AKN1020 J652
IC653: SUB VIDEO SELECTOR
IC653 NJM2234L
MULTI-ROOM OUT
Q658:BUFFER
Q1652 DTC143EK-TL
Q651-Q654: BUFFER
Q1652: INVERTER
VCR1
CN653 AKP1064 -1/2
LD
CN654 AKP1064 -2/2
VCR 1
CN653 AKP1064 -2/2
TO TV MONITOR
CN654 AKP1064 -1/2
IC652: C-SIGNAL SELECTOR LD/VCR1
IC655: C-SIGNAL SELECTOR S-TERMINAL/GUI
IC655 NJM2234L
IC651 LA7951
IC652 LA7951
2SA1115-T
2SC2458-T
2SA1048-T
JP
A
B
C
D
1
2
3
4
5
6

SR & S. TERMINAL ASSY

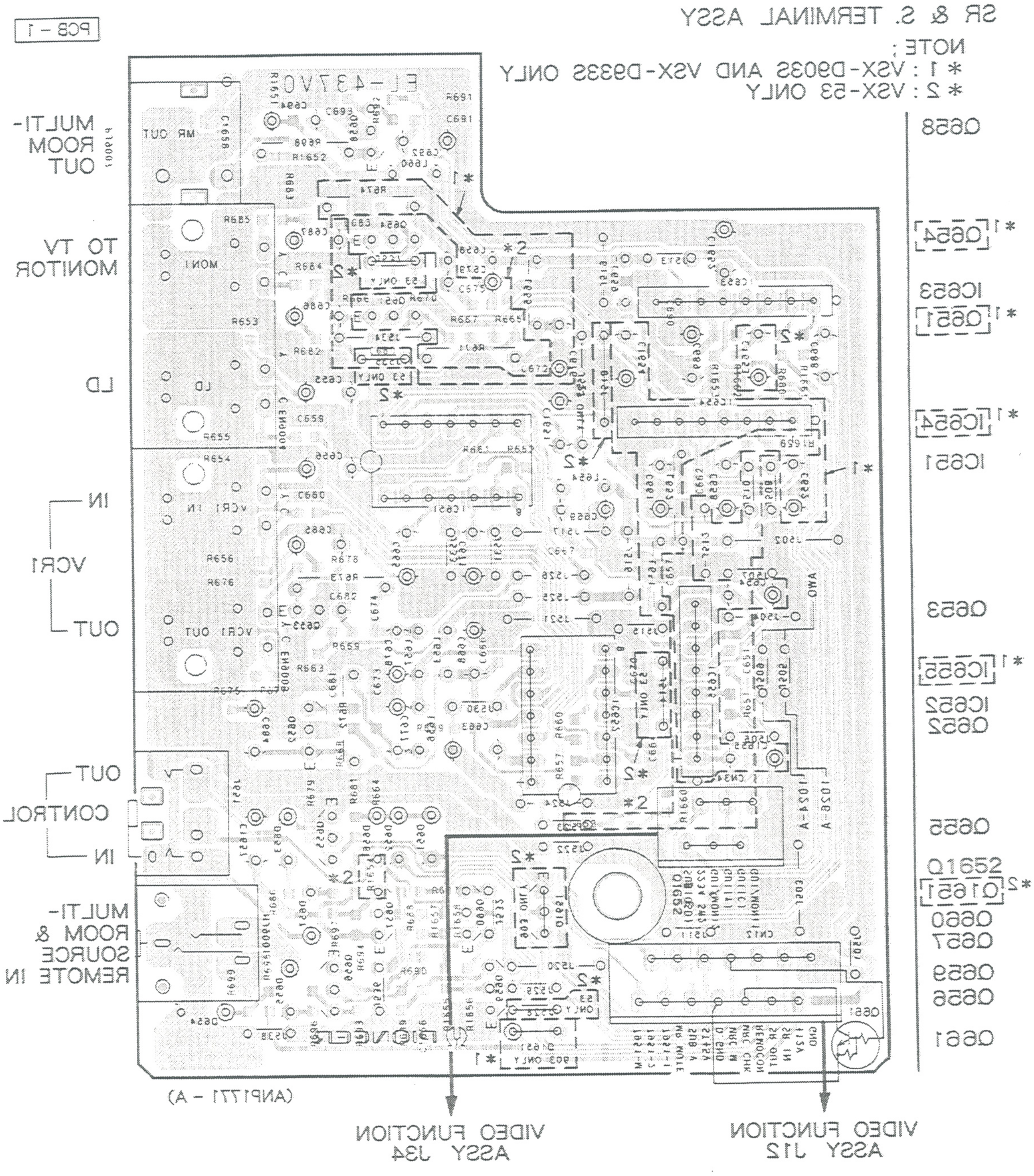
NOTE ;
＊1 : VSX-D903S AND VSX-D933S ONLY
＊2 : VSX-53 ONLY


PCB – 1
EL-437V0
Q658
＊1 Q654
IC653
＊1 Q651
＊1 IC654
IC651
Q653
＊1 IC655
IC652
Q652
Q655
Q1652
＊2 Q1651
Q660
Q657
Q659
Q656
Q661
MULTI-ROOM OUT
TO TV MONITOR
LD
IN
VCR1
OUT
OUT
CONTROL
IN
MULTI-ROOM & SOURCE REMOTE IN
(ANP1771 – A)
VIDEO FUNCTION ASSY J12
VIDEO FUNCTION ASSY J34

● This diagram is viewed from the mounted parts side.

SR & S. TERMINAL ASSY

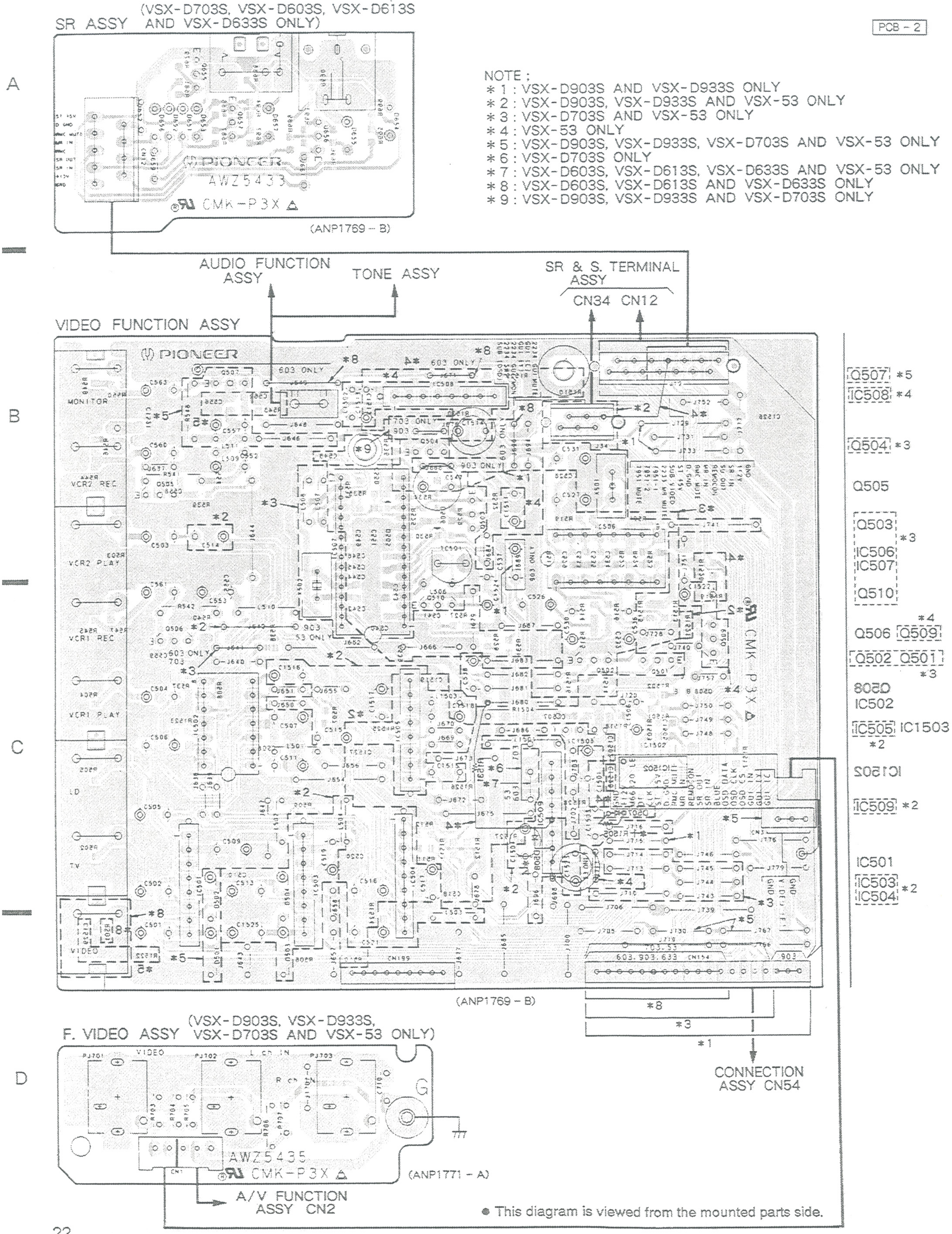
NOTE :
*1 : VSX-D903S AND VSX-D933S ONLY
*2 : VSX-53 ONLY


PCB - 1
EL-437V0
MULTI-ROOM OUT
TO TV MONITOR
LD
VCR1
IN
OUT
CONTROL
OUT
IN
MULTI-ROOM & SOURCE REMOTE IN
(ANP1771 - A)
VIDEO FUNCTION ASSY J34
VIDEO FUNCTION ASSY J12
Q658
*1 Q654
IC653
*1 Q651
*1 IC654
IC651
Q653
*1 IC655
IC652
Q652
Q655
Q1652
*2 Q1651
Q660
Q657
Q659
Q656
Q661

● This diagram is viewed from the foil side.

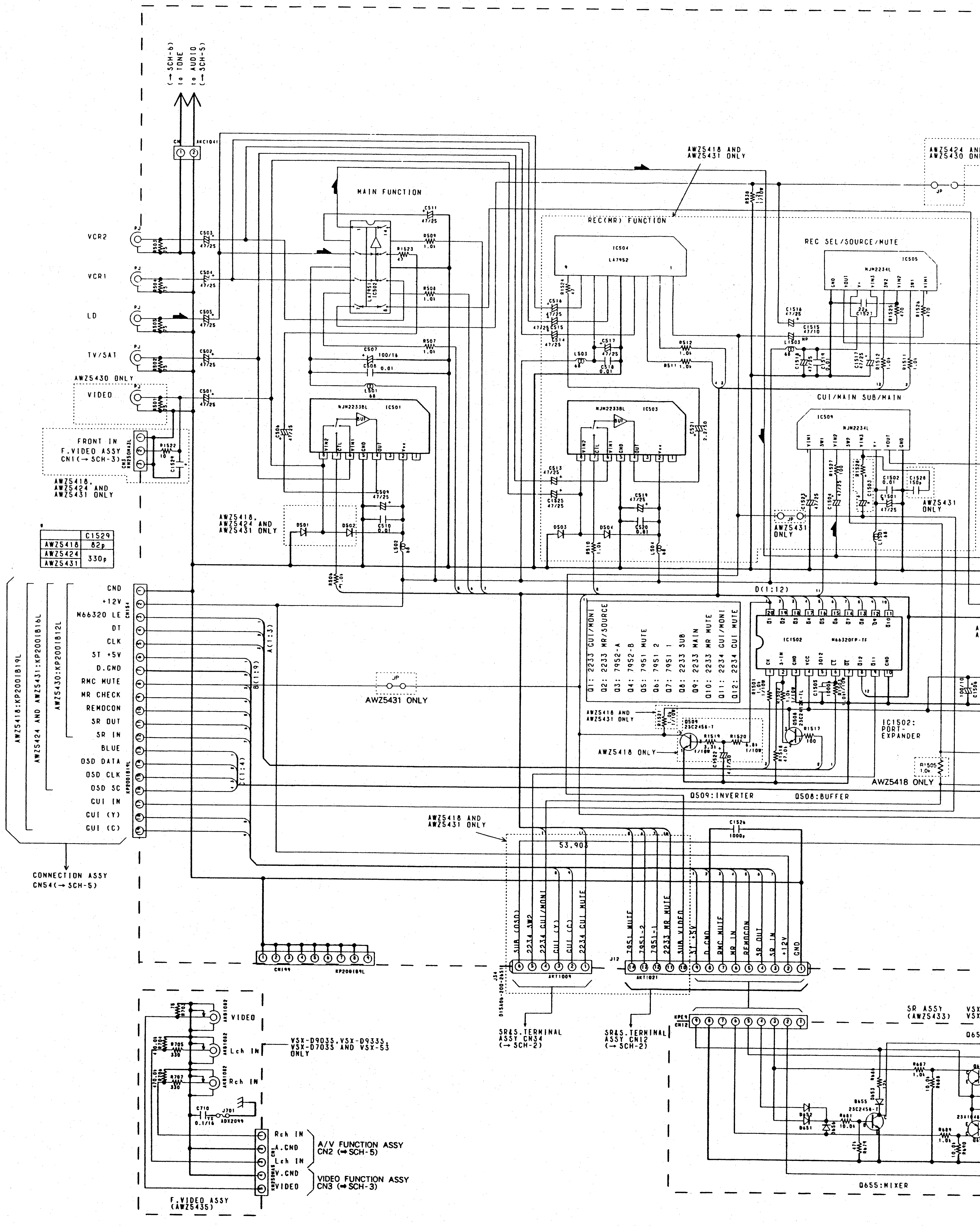
● This diagram is viewed from the foil side.

5.3 VIDEO FUNCTION, SR AND F. VIDEO ASSEMBLIES


SR ASSY (VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S ONLY)
PIONEER
AWZ5433
CMK-P3X
(ANP1769 – B)
PCB – 2
AUDIO FUNCTION ASSY
TONE ASSY
SR & S. TERMINAL ASSY
CN34
CN12
VIDEO FUNCTION ASSY
PIONEER
MONITOR
VCR2 REC
VCR2 PLAY
VCR1 REC
VCR1 PLAY
LD
TV
VIDEO
CMK-P3X
(ANP1769 – B)
*8
*3
*1
CONNECTION ASSY CN54
Q507 *5
IC508 *4
Q504 *3
Q505
Q503
IC506
IC507
Q510
*3
*4
Q506 Q509
Q502 Q501
*3
Q508
IC502
IC505 IC1503
*2
IC1502
IC509 *2
IC501
IC503
IC504
*2
F. VIDEO ASSY (VSX-D903S, VSX-D933S, VSX-D703S AND VSX-53 ONLY)
PJ701
VIDEO
PJ702
L ch IN
PJ703
R ch
AWZ5435
CMK-P3X
CN1
(ANP1771 – A)
A/V FUNCTION ASSY CN2

NOTE :
- ∗1 : VSX-D903S AND VSX-D933S ONLY
- ∗2 : VSX-D903S, VSX-D933S AND VSX-53 ONLY
- ∗3 : VSX-D703S AND VSX-53 ONLY
- ∗4 : VSX-53 ONLY
- ∗5 : VSX-D903S, VSX-D933S, VSX-D703S AND VSX-53 ONLY
- ∗6 : VSX-D703S ONLY
- ∗7 : VSX-D603S, VSX-D613S, VSX-D633S AND VSX-53 ONLY
- ∗8 : VSX-D603S, VSX-D613S AND VSX-D633S ONLY
- ∗9 : VSX-D903S, VSX-D933S AND VSX-D703S ONLY

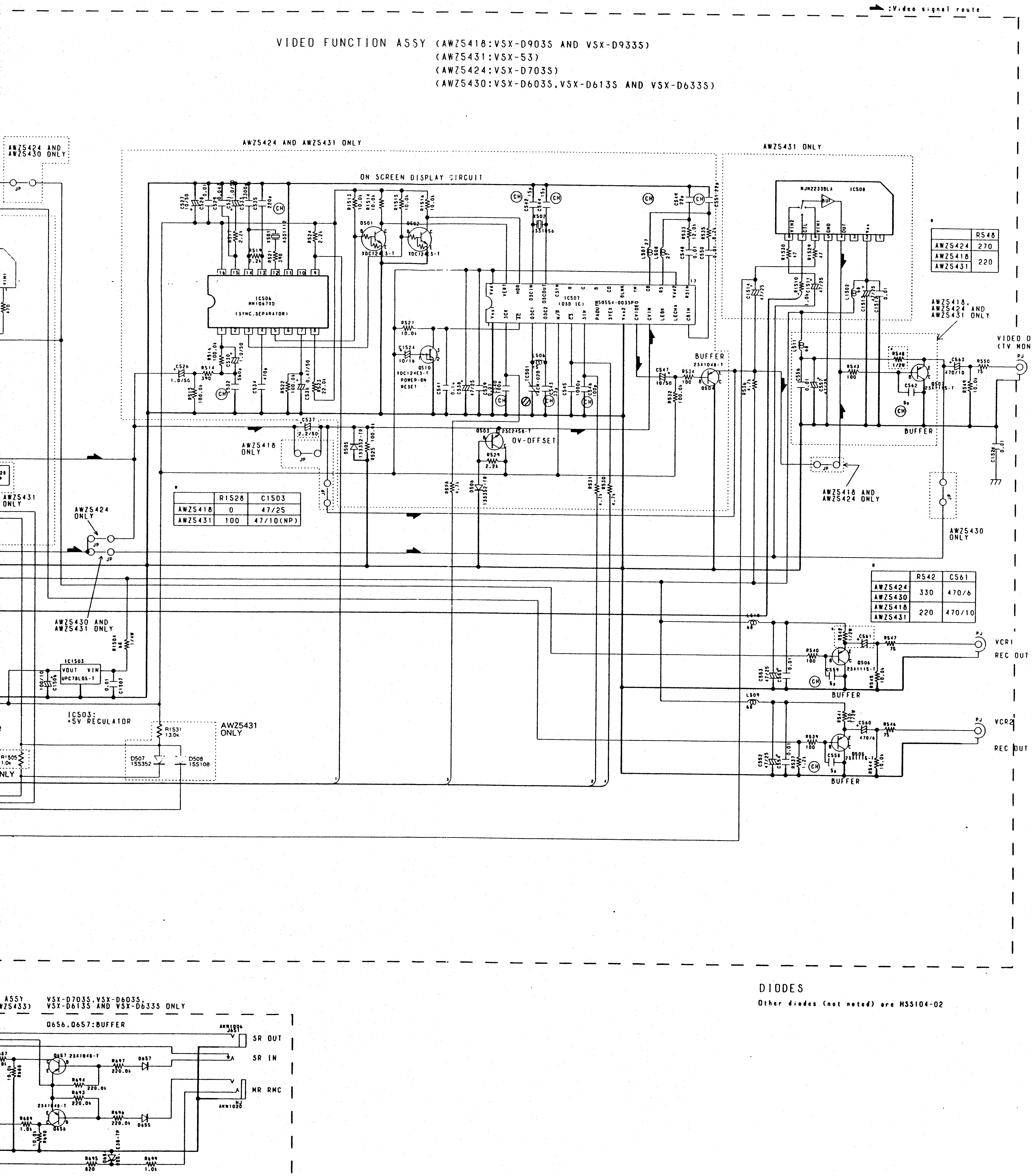
● This diagram is viewed from the mounted parts side.


(→ SCH-6) to TONE
to AUDIO (→ SCH-5)
MAIN FUNCTION
REC(MR) FUNCTION
AWZ5418 AND AWZ5431 ONLY
AWZ5424 AND AWZ5430 ONLY
REC SEL/SOURCE/MUTE
GUI/MAIN SUB/MAIN
VCR2
VCR1
LD
TV/SAT
AWZ5430 ONLY
VIDEO
FRONT IN F.VIDEO ASSY CN1(→ SCH-3)
AWZ5418, AWZ5424 AND AWZ5431 ONLY
IC501 NJM2233BL
IC502 LA7951
IC503 NJM2233BL
IC504 LA7952
IC505 NJM2234L
IC509 NJM2234L
IC1502 M66320FP-TF
IC1502: PORT-EXPANDER
Q509:INVERTER
Q508:BUFFER
AWZ5431 ONLY
AWZ5418 ONLY
C1529
AWZ5418 82p
AWZ5424 330p
AWZ5431
AWZ5418:KP2001819L
AWZ5424 AND AWZ5431:KP2001816L
AWZ5430:KP2001812L
GND
+12V
M66320 LE
DT
CLK
ST +5V
D.GND
RMC MUTE
MR CHECK
REMOCON
SR OUT
SR IN
BLUE
OSD DATA
OSD CLK
OSD SC
GUI IN
GUI (Y)
GUI (C)
CONNECTION ASSY CN54(→ SCH-5)
Q1: 2233 GUI/MONI
Q2: 2233 MR/SOURCE
Q3: 7952-A
Q4: 7952-B
Q5: 7951 MUTE
Q6: 7951 2
Q7: 7951 1
Q8: 2233 SUB
Q9: 2233 MAIN
Q10: 2234 GUI/MONI
Q11: 2234 MAIN
Q12: 2234 GUI MUTE
SUB (OSD)
2234 SW2
2234 GUI/MONI
GUI (Y)
GUI (C)
2234 GUI MUTE
7951 MUTE
7951-2
7951-1
2233 MR MUTE
SUB VIDEO
ST +5V
D.GND
RMC MUTE
MR IN
REMOCON
SR OUT
SR IN
+12V
GND
SR&S.TERMINAL ASSY CN34 (→ SCH-2)
SR&S.TERMINAL ASSY CN12 (→ SCH-2)
SR ASSY (AWZ5433)
Q655:MIXER
VIDEO
Lch IN
Rch IN
VSX-D903S, VSX-D933S, VSX-D703S AND VSX-53 ONLY
Rch IN
A.GND
Lch IN
V.GND
VIDEO
A/V FUNCTION ASSY CN2 (→ SCH-5)
VIDEO FUNCTION ASSY CN3 (→ SCH-3)
F.VIDEO ASSY (AWZ5435)

SCH-3

VIDEO FUNCTION
ASSY,
SR ASSY,
F. VIDEO ASSY

VIDEO FUNCTION ASSY (AWZ5418:VSX-D903S AND VSX-D933S)
(AWZ5431:VSX-53)
(AWZ5424:VSX-D703S)
(AWZ5430:VSX-D603S,VSX-D613S AND VSX-D633S)


➡ :Video signal route
AWZ5424 AND AWZ5430 ONLY
AWZ5424 AND AWZ5431 ONLY
ON SCREEN DISPLAY CIRCUIT
AWZ5431 ONLY
IC506 MN1067XD (SYNC.SEPARATOR)
IC507 (OSD IC) M50554-003SP
Q501 Q502 XDC124ES-T
Q510 XDC124ES-T POWER-ON RESET
Q503 2SC2456-T OV-OFFSET
Q504 2SA1048-T BUFFER
IC508 NJM2233BLA
Q507 2SA1115-T BUFFER
AWZ5418, AWZ5424 AND AWZ5431 ONLY
VIDEO OUT (TV MONITOR)
AWZ5418 ONLY
AWZ5418 AND AWZ5424 ONLY
AWZ5430 ONLY
AWZ5424 ONLY
AWZ5430 AND AWZ5431 ONLY
AWZ5431 ONLY
IC1503 UPC78L05-T
IC503: +5V REGULATOR
D507 1SS352
D508 1SS108
Q506 2SA1115-T BUFFER
VCR1 REC OUT
Q505 2SA1115-T BUFFER
VCR2 REC OUT
JP
PJ

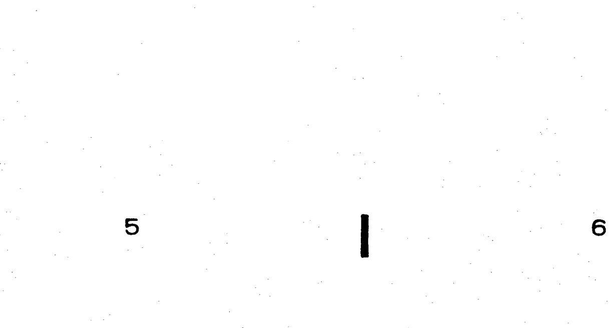
	R1528	C1503
AWZ5418	0	47/25
AWZ5431	100	47/10(NP)

	R548
AWZ5424	270
AWZ5418 AWZ5431	220

	R542	C561
AWZ5424 AWZ5430	330	470/6
AWZ5418 AWZ5431	220	470/10

DIODES
Other diodes (not noted) are HSS104-02

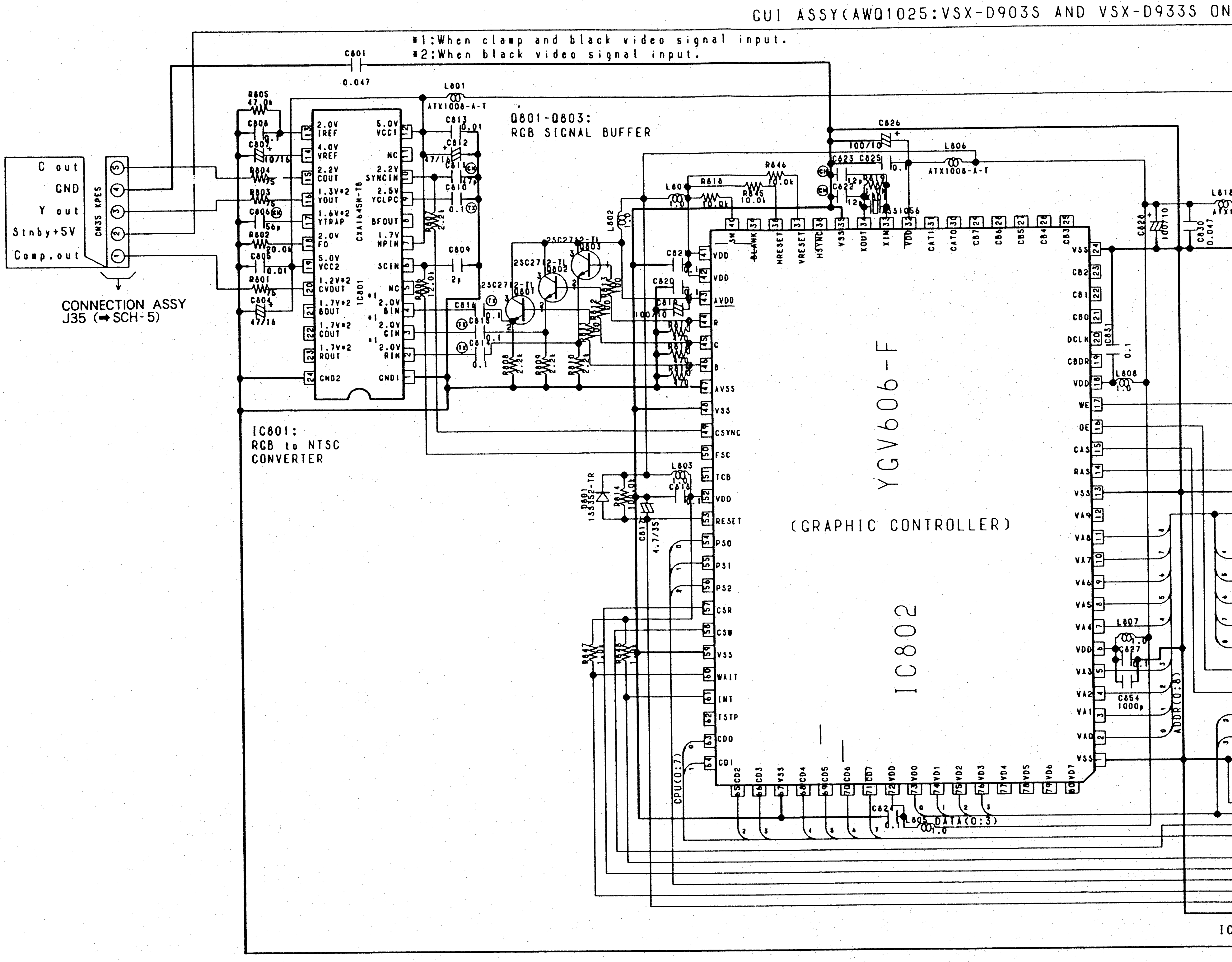
ASSY (WZ5433) VSX-D703S,VSX-D603S, VSX-D613S AND VSX-D633S ONLY


Q656,Q657:BUFFER
Q657 2SA1048-T
Q656 2SA1048-T
SR OUT
SR IN
MR RMC
AKN1004
AKN1020

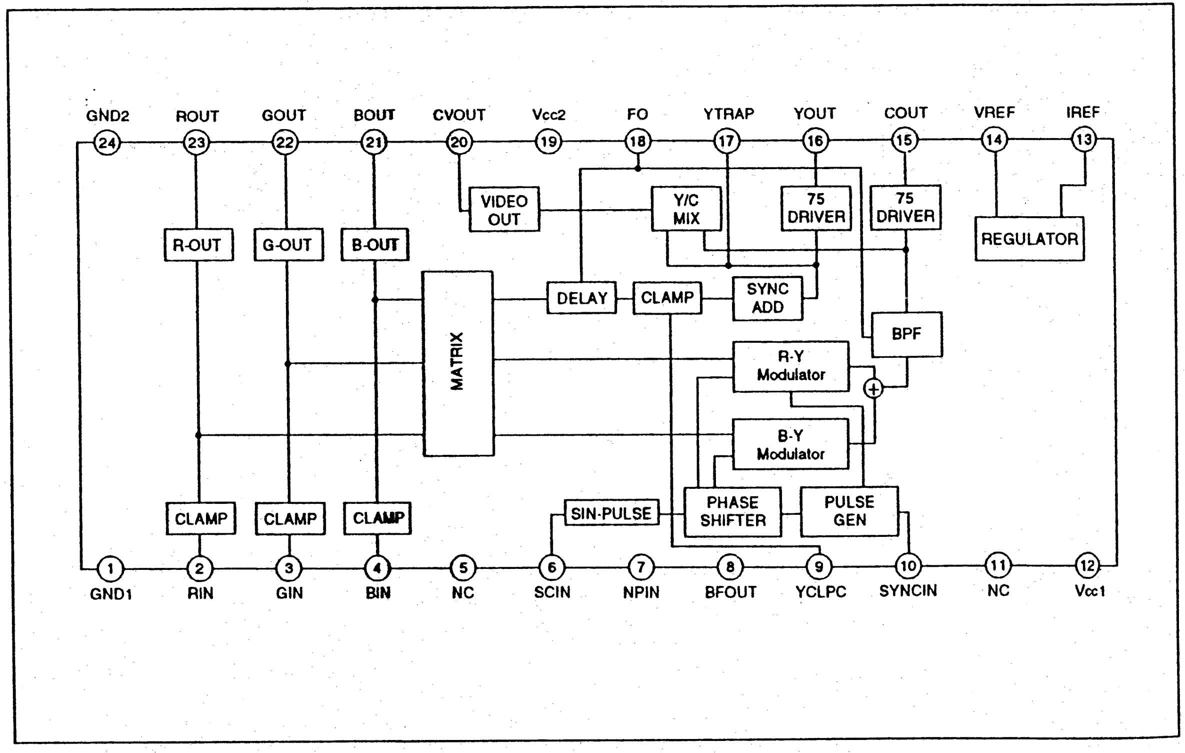
VIDEO FUNCTION ASSY, SR ASSY, F. VIDEO ASSY

SCH-3

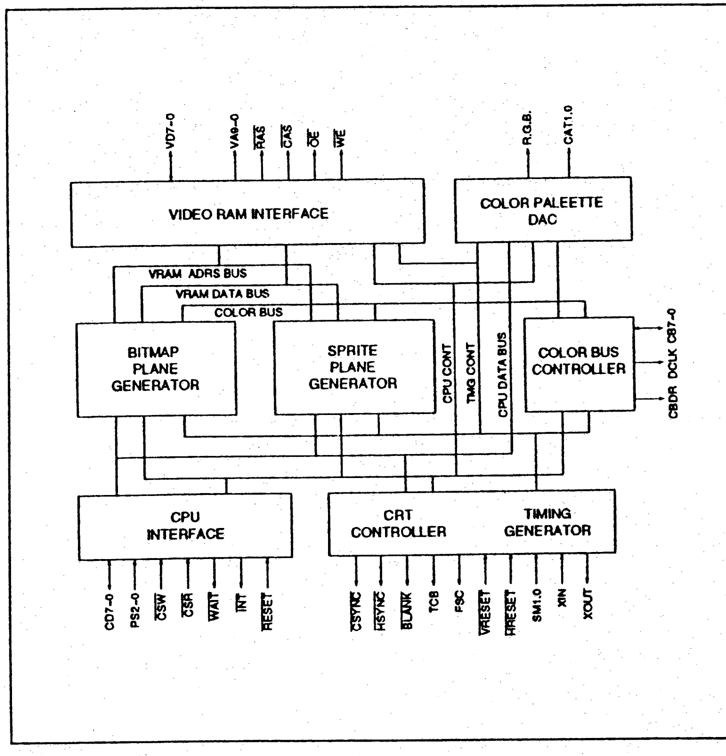
5.4 GUI ASSY


GUI ASSY(AWQ1025:VSX-D903S AND VSX-D933S ON
*1:When clamp and black video signal input.
*2:When black video signal input.
C out
GND
Y out
Stnby+5V
Comp.out
CN35 KPE5
CONNECTION ASSY
J35 (➡SCH-5)
C801 0.047
L801 ATX1008-A-T
Q801-Q803:
RGB SIGNAL BUFFER
IC801
CXA1645M-T6
IC801:
RGB to NTSC
CONVERTER
2SC2712-TL
L806 ATX1008-A-T
YGV606-F
(GRAPHIC CONTROLLER)
IC802
D801 1SS352-TR
ADDR(0:8)
DATA(0:3)
CPU(0:7)

IC801(CXA1645M)


GND2
ROUT
GOUT
BOUT
CVOUT
Vcc2
FO
YTRAP
YOUT
COUT
VREF
IREF
VIDEO OUT
Y/C MIX
75 DRIVER
75 DRIVER
REGULATOR
R-OUT
G-OUT
B-OUT
MATRIX
DELAY
CLAMP
SYNC ADD
BPF
R-Y Modulator
B-Y Modulator
CLAMP
CLAMP
CLAMP
SIN-PULSE
PHASE SHIFTER
PULSE GEN
GND1
RIN
GIN
BIN
NC
SCIN
NPIN
BFOUT
YCLPC
SYNCIN
NC
Vcc1

IC802(YGV606-F)


VD7-0
VA8-0
RAS
CAS
OE
WE
R.G.B.
CAT1.0
VIDEO RAM INTERFACE
COLOR PALEETTE DAC
VRAM ADRS BUS
VRAM DATA BUS
COLOR BUS
BITMAP PLANE GENERATOR
SPRITE PLANE GENERATOR
CPU CONT
TMG CONT
CPU DATA BUS
COLOR BUS CONTROLLER
CB7-0
DCLK
CBDR
CPU INTERFACE
CRT CONTROLLER
TIMING GENERATOR
CD7-0
PS2-0
CSW
CSR
WAIT
INT
RESET
CSYNC
HSYNC
BLANK
TCB
FSC
VRESET
HRESET
SM1.0
XIN
XOUT

SCH-4

A

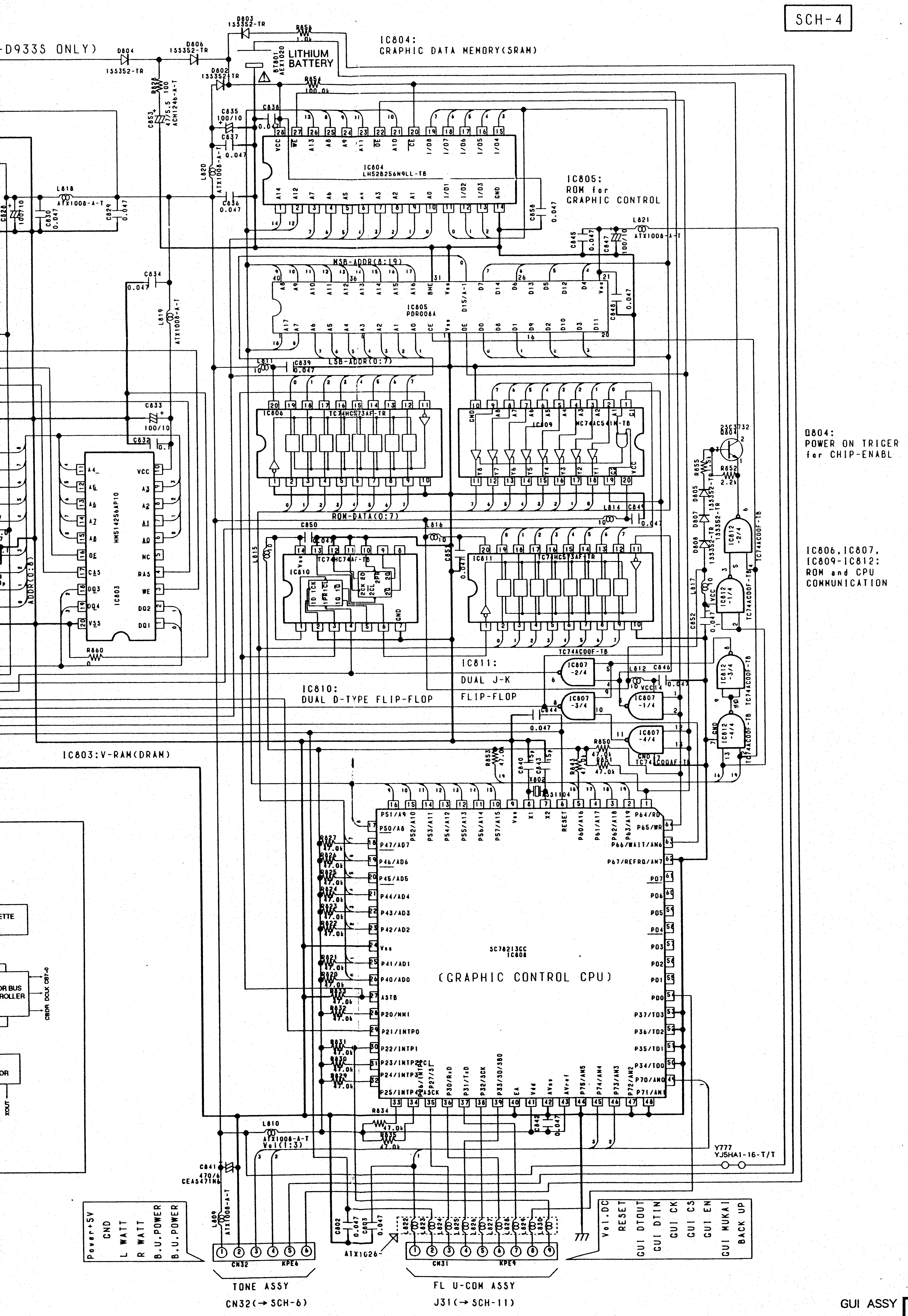
B

C

D

E

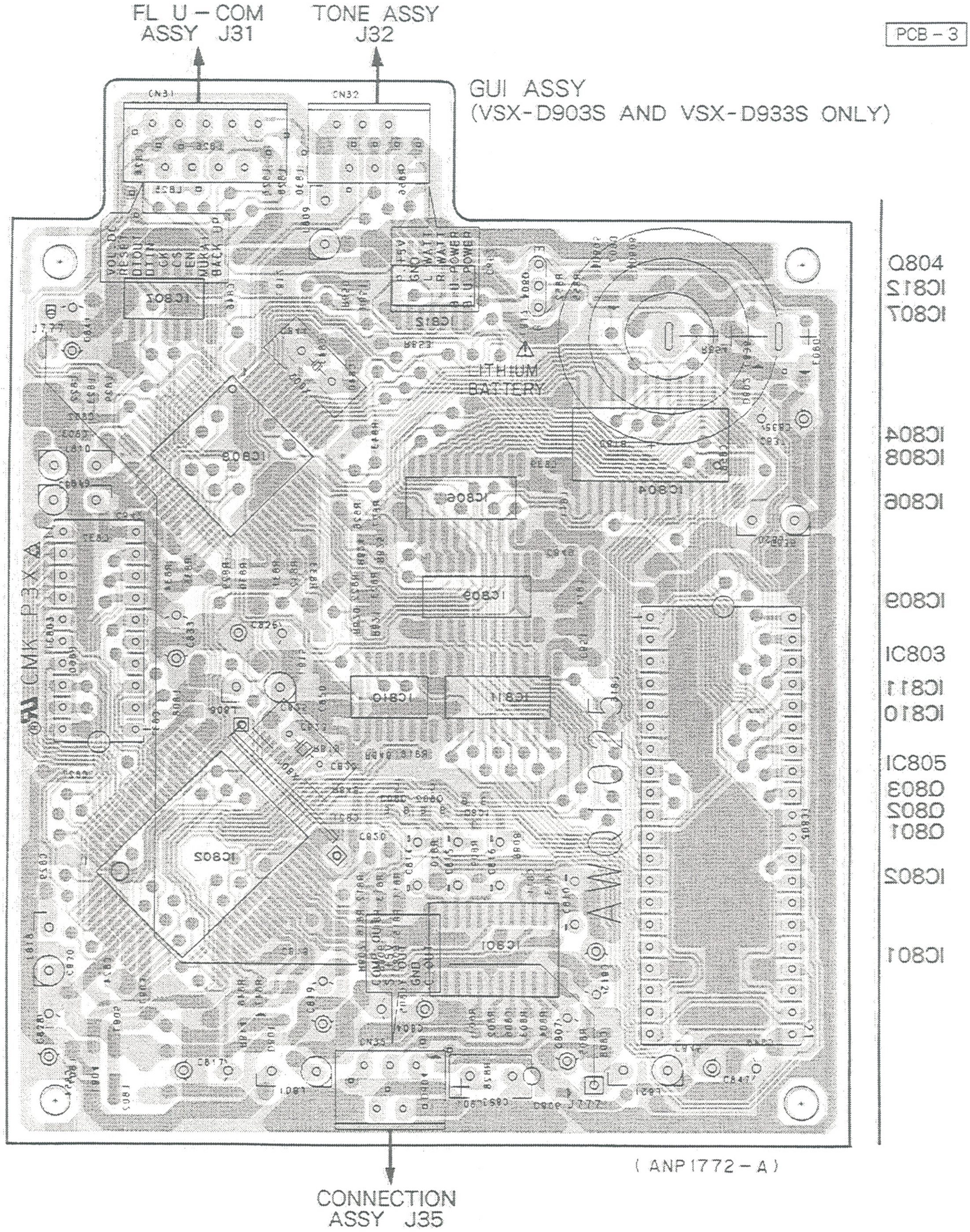
F


-D933S ONLY)
D803 1SS352-TR
R856 1.0k
D804 1SS352-TR
D806 1SS352-TR
D802 1SS352-TR
BT801 AEX1020
LITHIUM BATTERY
R854 100.0k
IC804:
GRAPHIC DATA MEMORY(SRAM)
IC804 LH52B256N9LL-TB
IC805:
ROM for
GRAPHIC CONTROL
IC805 PDR008A
MSB-ADDR(8:19)
LSB-ADDR(0:7)
ROM-DATA(0:7)
R828 100
C853 47/5.5 ACH1246-A-T
C835 100/10
C838 0.047
C837 0.047
C836 0.047
L820 ATX1008-A-T
L818 ATX1008-A-T
C830 0.047
C829 0.047
C858 0.047
C845 0.047
C847 100/10
L821 ATX1008-A-T
C848 0.047
C834 0.047
L819 ATX1008-A-T
C833 100/10
C832 0.1
IC803 HM514256AP10
ADDR(0:8)
R860 0
IC803:V-RAM(DRAM)
L811 10
C839 0.047
IC806 TC74HC573AF-TR
IC809 MC74AC541M-TB
Q804 2SC3732
R655 15.3k
R652 2.2k
D805 D807 D808 1SS352-TR
IC812 -2/4 TC74AC00F-TB
IC812 -1/4 TC74AC00F-TB
IC812 -3/4 TC74AC00F-TB
IC812 -4/4 TC74AC00F-TB
L817 10
C852 0.047
L814 C849 0.047
C850
L816 10
C851 0.047
L815
IC810 TC74HC74AF-TB
IC811 TC74HC573AF-TR
TC74AC00F-TB
IC811:
DUAL J-K
FLIP-FLOP
IC810:
DUAL D-TYPE FLIP-FLOP
IC807 -2/4
IC807 -3/4
IC807 -1/4
IC807 -4/4 TC74AC00AF-TB
L812 C846 0.047
C844 0.047
R853 47.0k
C840 15p
C843 15p
X802 CSS1104
R843 47.0k
R850 47.0k
R851 47.0k
Q804:
POWER ON TRIGER
for CHIP-ENABL
IC806,IC807,
IC809-IC812:
ROM and CPU
COMMUNICATION
R827 R826 R825 R824 R823 R822 R821 R820 R833 R832 R831 R830 R829 47.0k
SC78213CC IC808
(GRAPHIC CONTROL CPU)
R834 47.0k
R835 47.0k
C842 0.047
L810 ATX1008-A-T
Vol(1:3)
C841 470/6 CEAS471M6
L809 ATX1008-A-T
C802 0.047
C803 0.047
L822 L823 L824 L825 L826 L827 L828 L829 L830
ATX1026-
Y777 YJ5HA1-16-T/T
Power+5V
GND
L WATT
R WATT
B.U.POWER
B.U.POWER
CN32 KPE6
TONE ASSY
CN32(→ SCH-6)
CN31 KPE9
FL U-COM ASSY
J31(→ SCH-11)
Vol.DC
RESET
GUI DTOUT
GUI DTIN
GUI CK
GUI CS
GUI EN
GUI MUKAI
BACK UP
ETTE
OR BUS
ROLLER
OR
XOUT

GUI ASSY

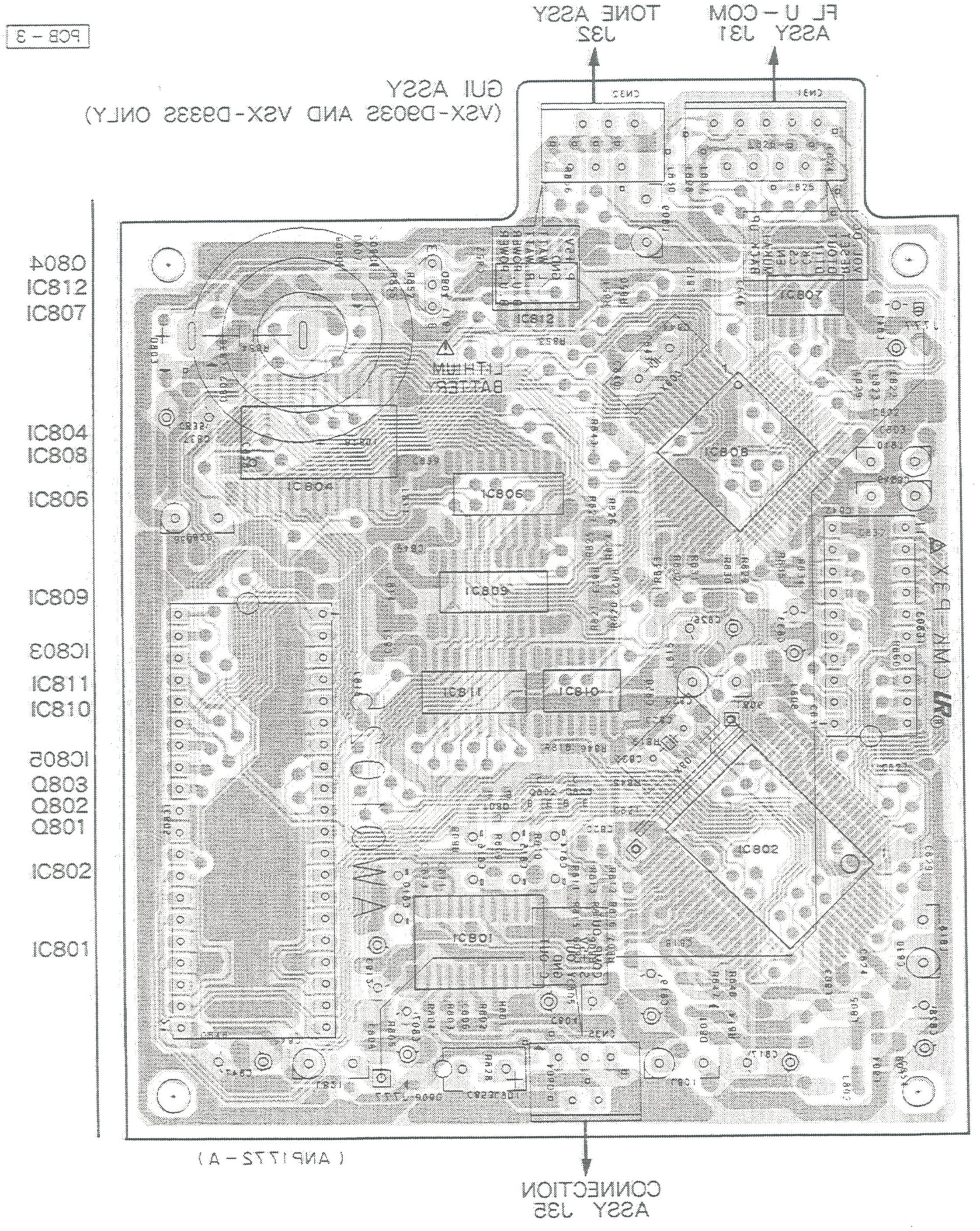
SCH-4

PCB – 3


A
B
C
FL U – COM
ASSY J31
TONE ASSY
J32
GUI ASSY
(VSX-D903S AND VSX-D933S ONLY)
CN31
CN32
LITHIUM
BATTERY
CMK P3X
AWQ025
Q804
IC812
IC807
IC804
IC808
IC806
IC809
IC803
IC811
IC810
IC805
Q803
Q802
Q801
IC802
IC801
(ANP1772 – A)
CONNECTION
ASSY J35

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

A



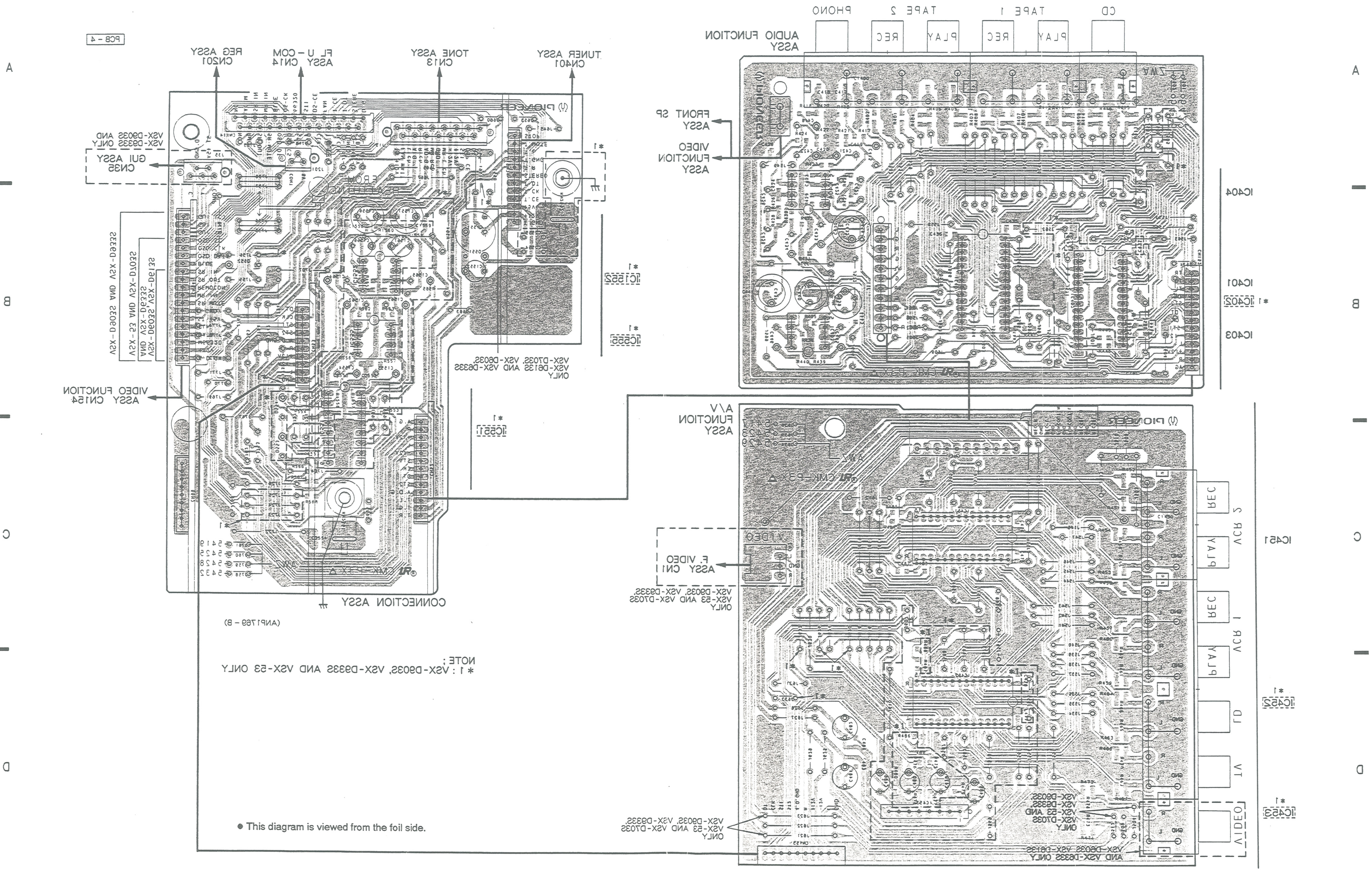
B

C

● This diagram is viewed from the gray colored foil side.
● This PCB is double sided.

D

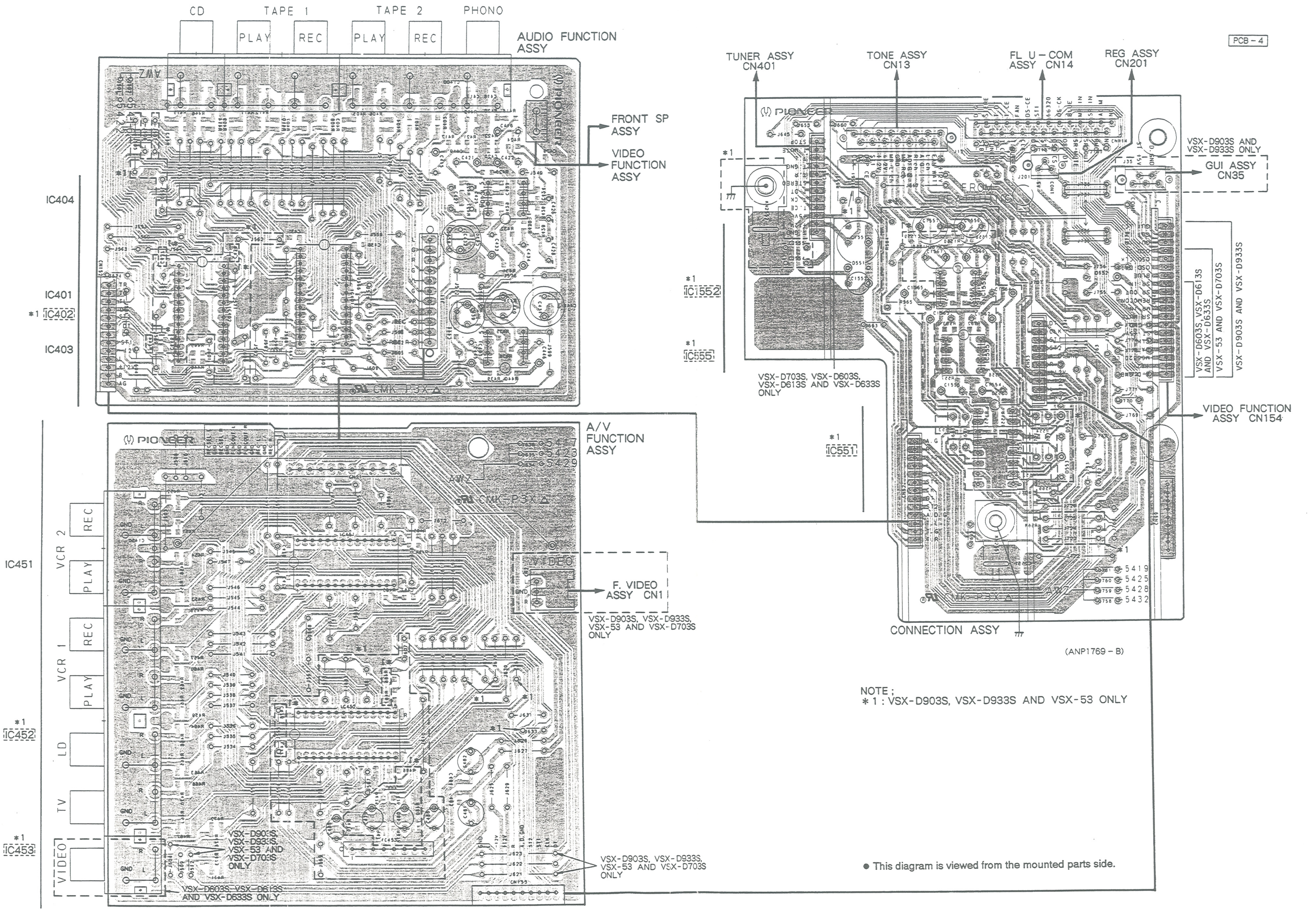
5.5 AUDIO FUNCTION, A/V FUNCTION AND CONNECTION ASSEMBLIES


PCB - 4
TUNER ASSY CN401
TONE ASSY CN13
FL U-COM ASSY CN14
REG ASSY CN201
VSX-D903S AND VSX-D933S ONLY
GUI ASSY CN35
VSX-D903S AND VSX-D933S
VSX-53 AND VSX-D703S
VSX-D613S
VIDEO FUNCTION ASSY CN154
*1 IC552
*1 IC555
VSX-D703S, VSX-D613S AND VSX-D633S ONLY
*1 IC551
CONNECTION ASSY
(ANP1769 - B)
AUDIO FUNCTION ASSY
PHONO
TAPE 2
REC
PLAY
TAPE 1
CD
FRONT SP ASSY
VIDEO FUNCTION ASSY
IC404
IC401
*1 IC402
IC403
A/V FUNCTION ASSY
VCR 2
VCR 1
LD
TV
VIDEO
IC451
*1 IC452
*1 IC453
F. VIDEO ASSY CN1
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
VSX-D903S, VSX-D933S AND VSX-D613S ONLY
PIONEER
A
B
C
D
6
5
4
3
2
1

NOTE :
*1 : VSX-D903S, VSX-D933S AND VSX-53 ONLY

● This diagram is viewed from the foil side.

5.5 AUDIO FUNCTION, A/V FUNCTION AND CONNECTION ASSEMBLIES


CD
TAPE 1
TAPE 2
PHONO
PLAY
REC
PLAY
REC
AUDIO FUNCTION ASSY
FRONT SP ASSY
VIDEO FUNCTION ASSY
IC404
IC401
*1 IC402
IC403
CMK-P3X
A/V FUNCTION ASSY
5417
5423
5429
VCR 2
REC
PLAY
VCR 1
REC
PLAY
LD
TV
VIDEO
IC451
*1 IC452
*1 IC453
VIDEO
F. VIDEO ASSY CN1
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
VSX-D603S VSX-D613S AND VSX-D633S ONLY
VSX-D903S, VSX-D933S, VSX-53 AND VSX-D703S ONLY
PCB-4
TUNER ASSY CN401
TONE ASSY CN13
FL U-COM ASSY CN14
REG ASSY CN201
VSX-D903S AND VSX-D933S ONLY
GUI ASSY CN35
*1
*1 IC552
*1 IC555
VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S ONLY
*1 IC551
VSX-D603S, VSX-D613S AND VSX-D633S
VSX-53 AND VSX-D703S
VSX-D903S AND VSX-D933S
VIDEO FUNCTION ASSY CN154
5419
5425
5428
5432
CONNECTION ASSY
(ANP1769 - B)
1
2
3
4
5
6
A
B
C
D

NOTE ;
＊1 : VSX-D903S, VSX-D933S AND VSX-53 ONLY

● This diagram is viewed from the mounted parts side.

➡:Front audio signal r

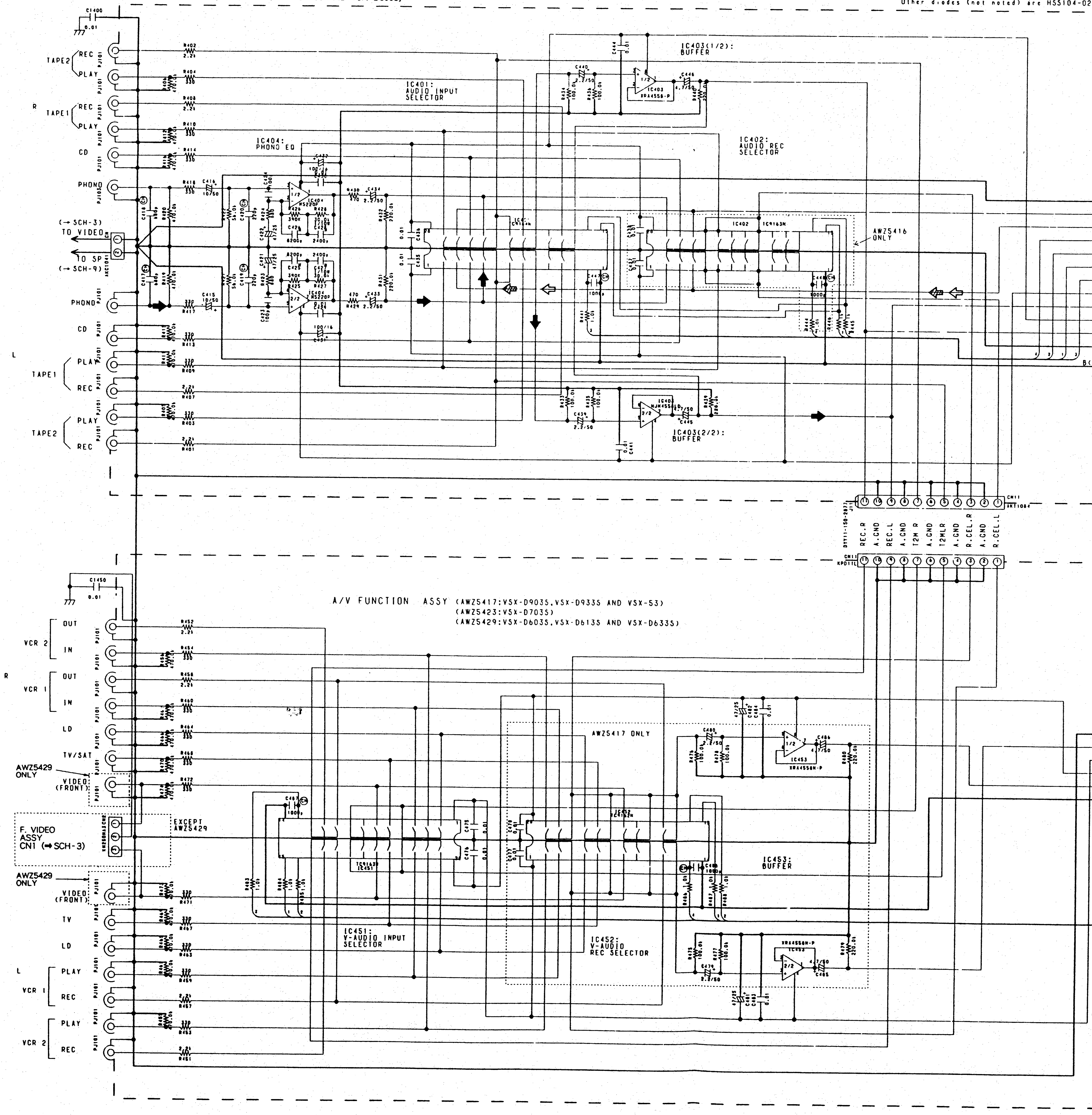
➡:FM signal route(Lch)

⇨:AM signal route(Lch)

DIODES

Other diodes (not noted) are HSS104-02

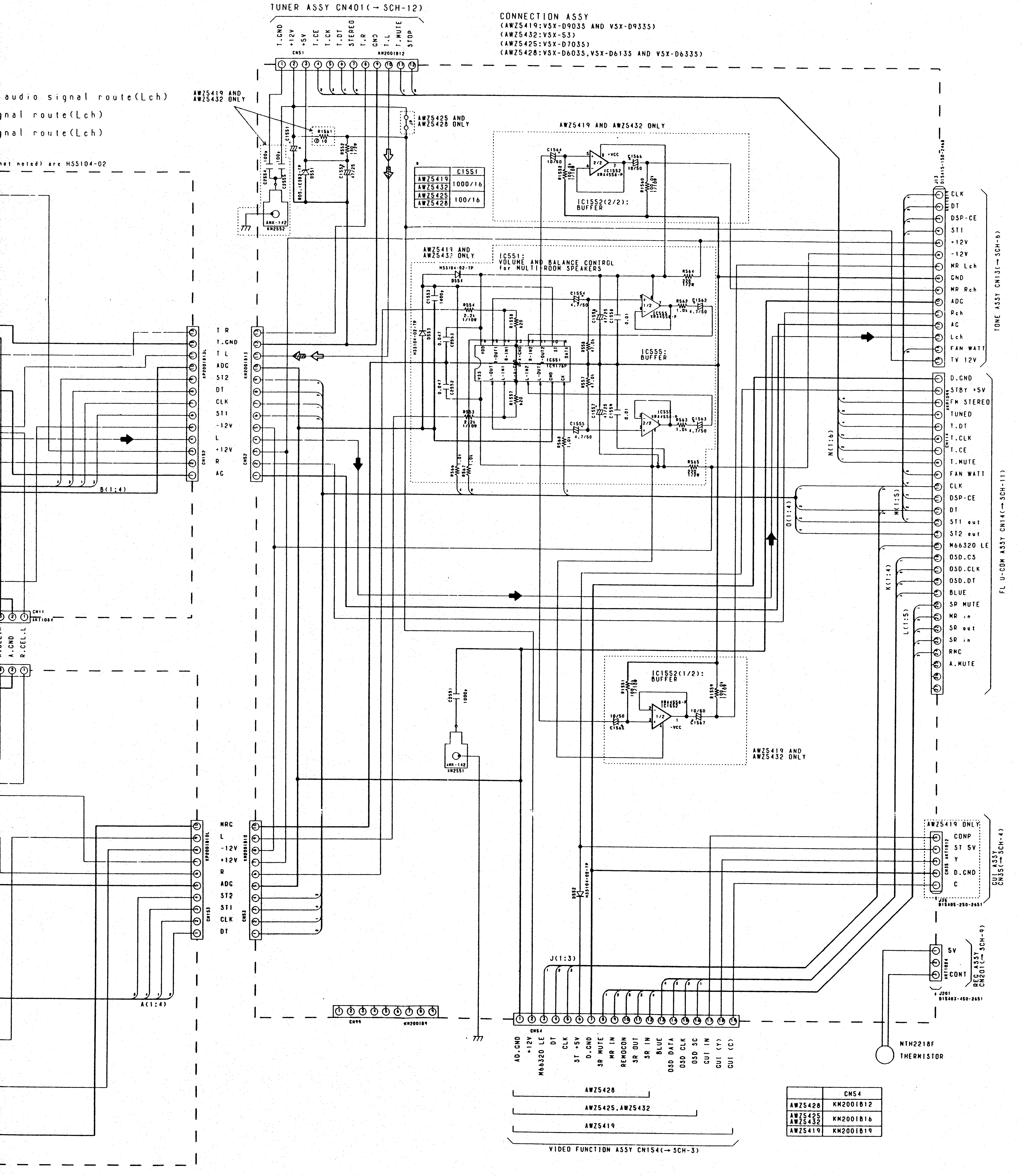
AUDIO FUNCTION ASSY
(AWZ5416 : VSX-D903S AND VSX-D933S)
(AWZ5728 : VSX-53)
(AWZ5422 : VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S)


C1400
TAPE2 REC
PLAY
TAPE1 REC
PLAY
CD
PHONO
R
(→ SCH-3) TO VIDEO
TO SP (→ SCH-9)
L
IC404: PHONO EQ
IC401: AUDIO INPUT SELECTOR
IC403(1/2): BUFFER
IC402: AUDIO REC SELECTOR
IC402 TC9163N
AWZ5416 ONLY
IC403(2/2): BUFFER
CN11 AKT1084
DYY11-150-2877 J11
REC.R
A.GND
REC.L
A.GND
T2M R
A.GND
T2MLR
A.GND
R.CEL.R
A.GND
R.CEL.L
CN11 KPD11L
C1450
A/V FUNCTION ASSY (AWZ5417:VSX-D903S,VSX-D933S AND VSX-53)
(AWZ5423:VSX-D703S)
(AWZ5429:VSX-D603S,VSX-D613S AND VSX-D633S)
VCR 2 OUT
IN
VCR 1 OUT
IN
LD
TV/SAT
AWZ5429 ONLY
VIDEO (FRONT)
F. VIDEO ASSY CN1 (→SCH-3)
EXCEPT AWZ5429
AWZ5417 ONLY
IC453: BUFFER
IC451: V-AUDIO INPUT SELECTOR
IC452: V-AUDIO REC SELECTOR
TV
LD
VCR 1 PLAY
REC
VCR 2 PLAY
REC
XRA4558N-P

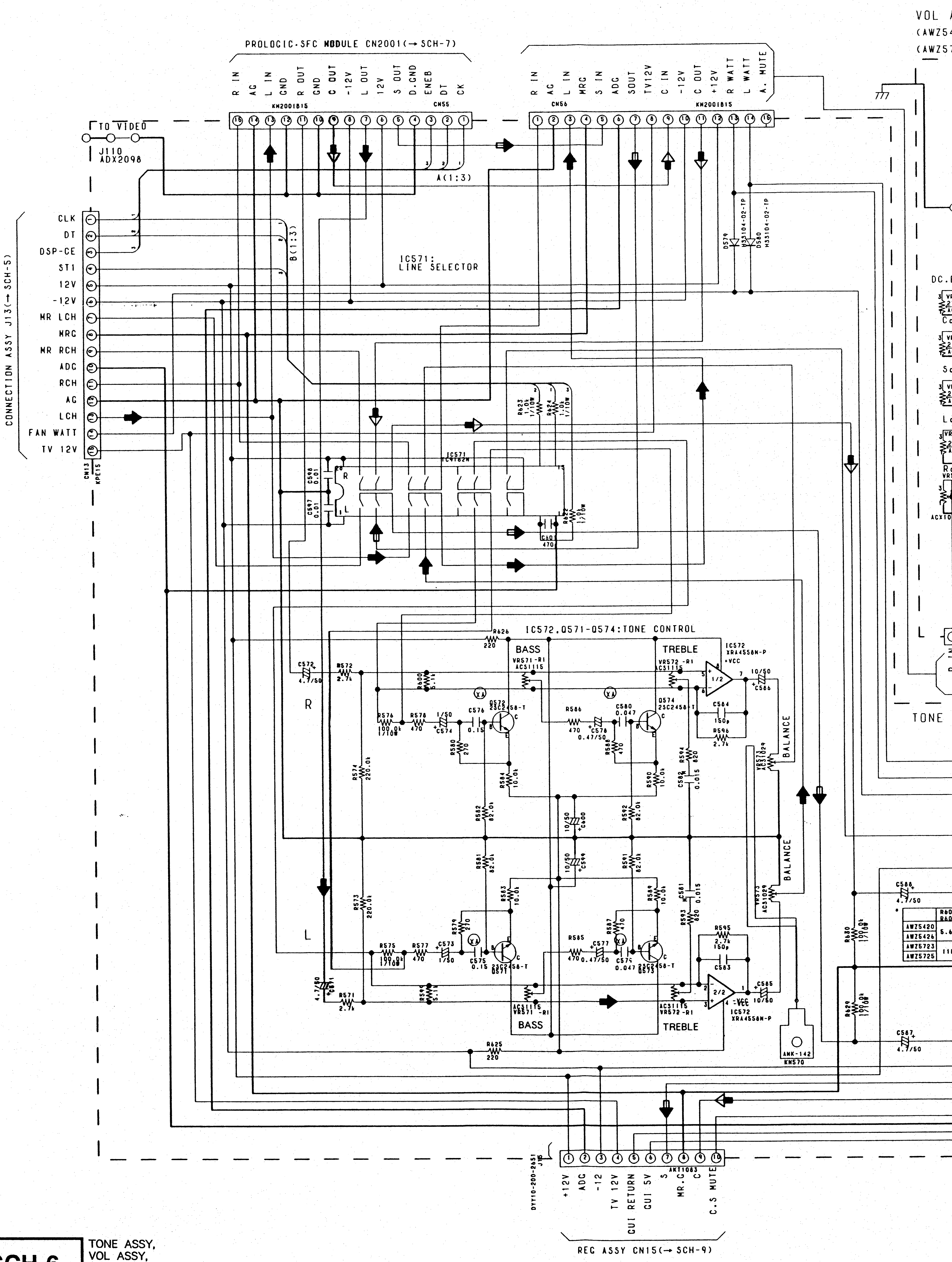
SCH-5

AUDIO FUNCTION ASSY,
A/V FUNCTION ASSY,
CONNECTION ASSY

A
B
C
D
E
F

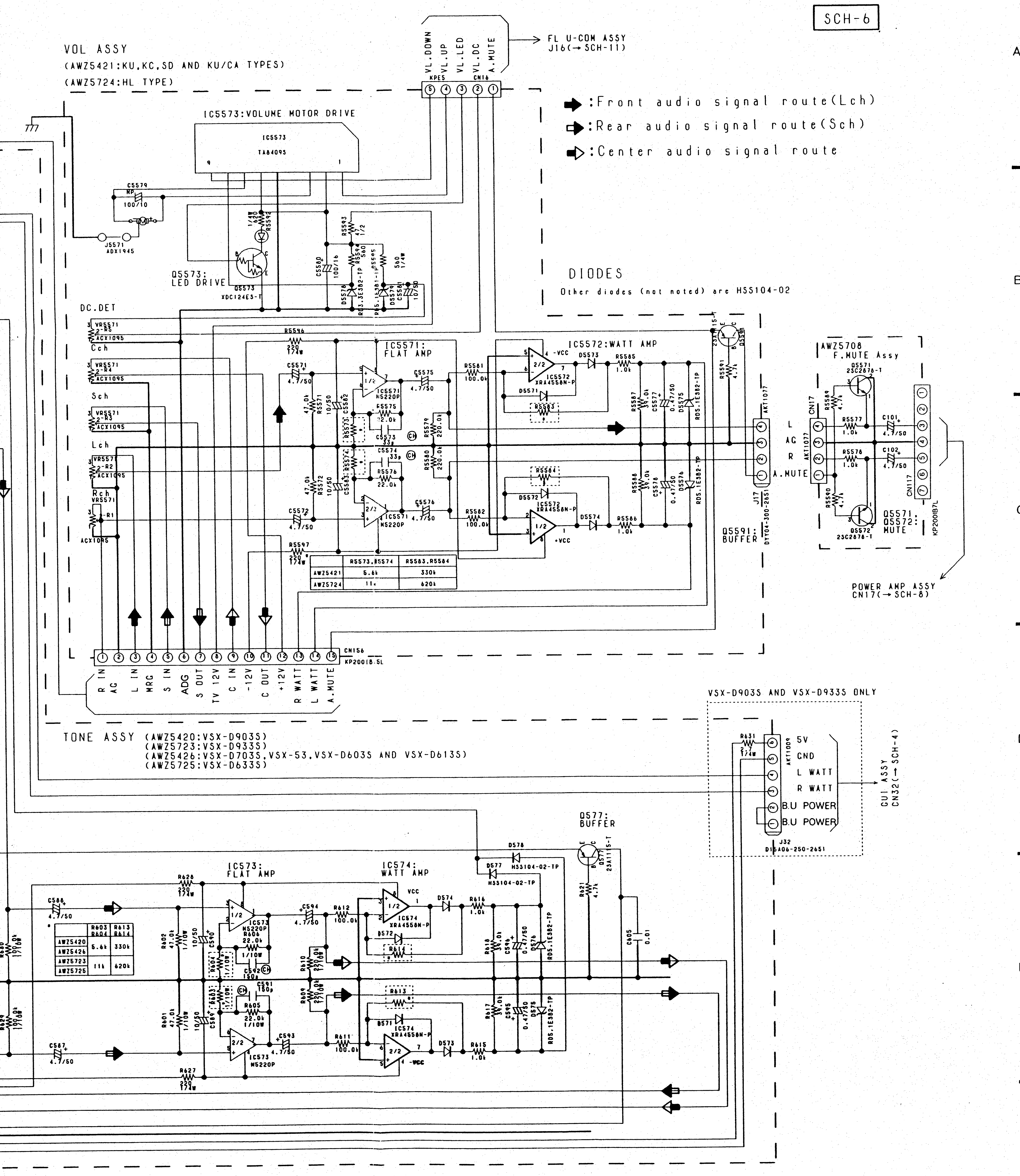

SCH-5
TUNER ASSY CN401(→ SCH-12)
T.GND +12V +5V T.CE T.CK T.DT STEREO T.R GND T.L T.MUTE STOP
CN51 KN2001B12
CONNECTION ASSY
(AWZ5419:VSX-D903S AND VSX-D933S)
(AWZ5432:VSX-53)
(AWZ5425:VSX-D703S)
(AWZ5428:VSX-D603S,VSX-D613S AND VSX-D633S)
audio signal route(Lch)
gnal route(Lch)
gnal route(Lch)
not noted) are HSS104-02
AWZ5419 AND AWZ5432 ONLY
AWZ5425 AND AWZ5428 ONLY
AWZ5419 AND AWZ5432 ONLY
	C1551
AWZ5419 AWZ5432	1000/16
AWZ5425 AWZ5428	100/16
IC1552(2/2): BUFFER
AWZ5419 AND AWZ5432 ONLY
IC551: VOLUME AND BALANCE CONTROL for MULTI-ROOM SPEAKERS
IC555: BUFFER
IC1552(1/2): BUFFER
AWZ5419 AND AWZ5432 ONLY
ANK-142 KN2552
ANK-142 KN2551
T R T.GND T L ADC ST2 DT CLK ST1 -12V L +12V R AC
CN152 KP2001B13L CN52 KN2001B13
B(1:4)
MRC L -12V +12V R ADC ST2 ST1 CLK DT
CN153 KP2001B10L CN53 KN2001B10
A(1:4)
J(1:3)
CN99 KN2001B9
CN54
AD.GND +12V M66320 LE DT CLK ST +5V D.GND SR MUTE MR IN REMOCON SR OUT SR IN BLUE OSD DATA OSD CLK OSD SC GUI IN GUI (Y) GUI (C)
AWZ5428
AWZ5425,AWZ5432
AWZ5419
VIDEO FUNCTION ASSY CN154(→ SCH-3)
	CN54
AWZ5428	KN2001B12
AWZ5425 AWZ5432	KN2001B16
AWZ5419	KN2001B19
TONE ASSY CN13(→ SCH-6)
CLK DT DSP-CE ST1 +12V -12V MR Lch GND MR Rch ADC Rch AC Lch FAN WATT TV 12V
FL U-COM ASSY CN14(→ SCH-11)
D.GND STBY +5V FM STEREO TUNED T.DT T.CLK T.CE T.MUTE FAN WATT CLK DSP-CE DT ST1 out ST2 out M66320 LE OSD.CS OSD.CLK OSD.DT BLUE SR MUTE MR in SR out SR in RMC A.MUTE
N(1:6) M(1:5) O(1:4) K(1:4) L(1:5)
AWZ5419 ONLY
GUI ASSY CN35(→ SCH-4)
COMP ST 5V Y D.GND C
REG ASSY CN201(→ SCH-9)
5V CONT
NTH2218F THERMISTOR

5.6 TONE, VOL AND F. MUTE ASSEMBLIES


A
B
C
D
E
F
PROLOGIC·SFC MODULE CN2001(→SCH-7)
R IN
AG
L IN
GND
R OUT
GND
C OUT
-12V
L OUT
12V
S OUT
D.GND
ENEB
DT
CK
KN2001815
CN55
CN56
KN2001815
MRC
S IN
ADG
SOUT
TV12V
C IN
C OUT
+12V
R WATT
L WATT
A. MUTE
TO VIDEO
J110
ADX2098
A(1:3)
B(1:3)
IC571:
LINE SELECTOR
CLK
DT
DSP-CE
ST1
12V
-12V
MR LCH
MRC
MR RCH
ADC
RCH
AG
LCH
FAN WATT
TV 12V
CONNECTION ASSY J13(→ SCH-5)
CN13
KPE15
D579
D580
H33104-02-TP
R623 1.0k 1/10W
R624 1.0k 1/10W
IC571
TC4052N
C598 0.01
C597 0.01
R622 1/10W
C601 470
IC572,Q571-Q574:TONE CONTROL
R626 220
BASS
VR571-R1
ACS1115
TREBLE
VR572-R1
ACS1115
IC572
XRA4558N-P
+VCC
1/2
10/50
C586
C572 4.7/50
R572 2.7k
R600 5.1k
R
R576 100.0k 1/10W
R578 470
1/50 C574
C576 0.15
Q572 2SC2458-T
R580 270
R586 470
C578 0.47/50
C580 0.047
R588 470
Q574 2SC2458-T
C584 150p
R596 2.7k
R594 620
C582 0.015
R584 10.0k
R590 10.0k
R574 220.0k
R582 82.0k
R592 82.0k
10/50 C600
10/50 C599
BALANCE
VR573 ACS1029
R581 82.0k
R591 82.0k
R583 10.0k
R589 10.0k
R581 0.015
R593 620
R573 220.0k
L
R575 100.0k 1/10W
R577 470
C573 1/50
R579 270
C575 0.15
Q571 2SC2458-T
R585 470
C577 0.47/50
R587 470
C579 0.047
Q573 2SC2458-T
R595 2.7k
150p
C583
2/2
C585 10/50
-VCC
IC572
XRA4558N-P
4.7/50 C571
R571 2.7k
R599 5.1k
R625 220
ANK-142
KN570
VOL
(AWZ5
DC.
TONE
C588 4.7/50
R630 100.0k 1/10W
R629 100.0k 1/10W
C587 4.7/50
AWZ5420
AWZ5426
AWZ5723
AWZ5725
ACX10
DYY10-200-2851
J15
AKT1083
+12V
ADC
-12
TV 12V
GUI RETURN
GUI 5V
S
MR.C
C
C.S MUTE
REG ASSY CN15(→ SCH-9)

SCH-6

TONE ASSY,
VOL ASSY,
F. MUTE ASSY

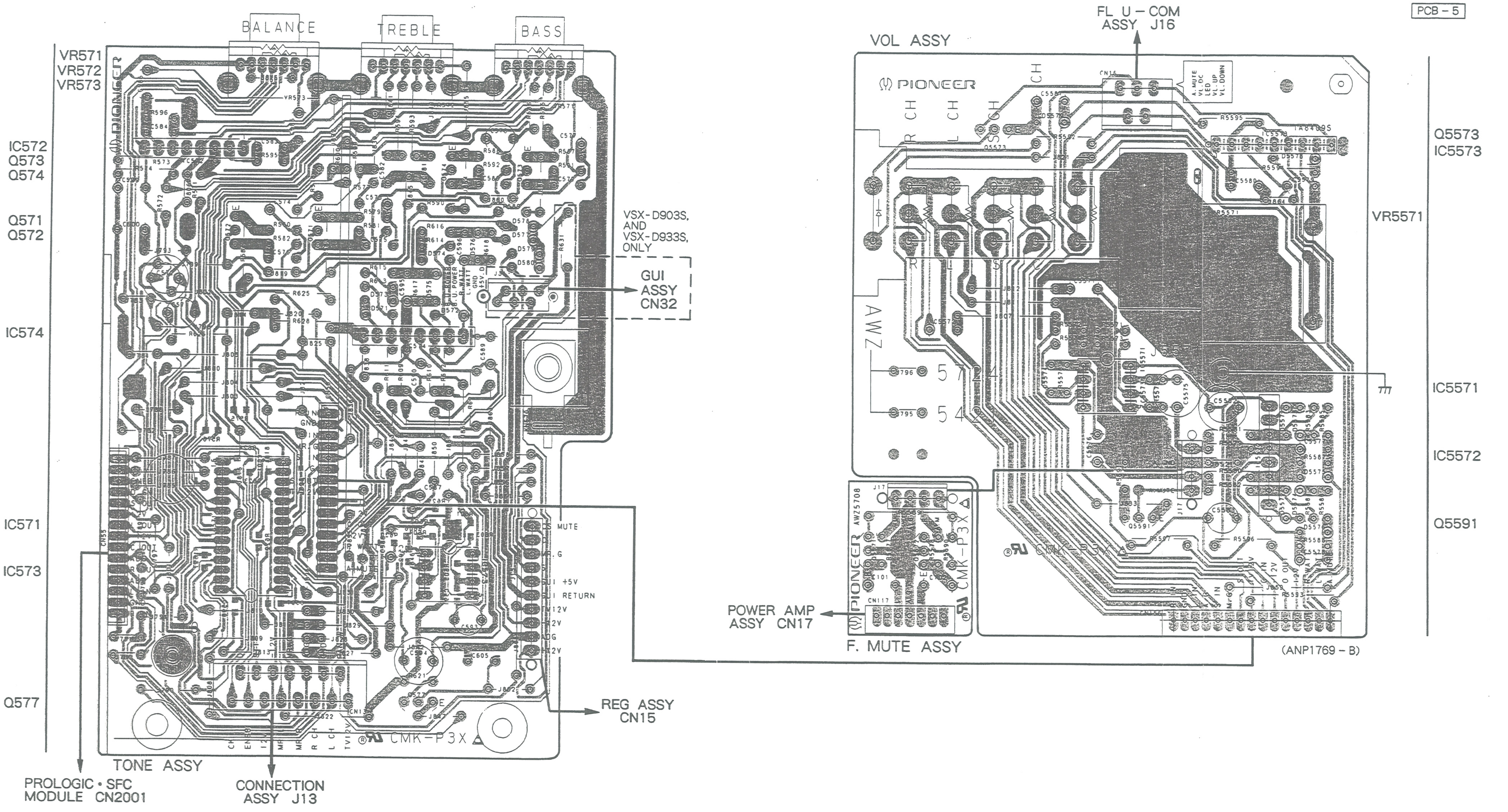

SCH-6
VOL ASSY
(AWZ5421:KU,KC,SD AND KU/CA TYPES)
(AWZ5724:HL TYPE)
VL.DOWN
VL.UP
VL.LED
VL.DC
A.MUTE
KPE5
CN16
FL U-COM ASSY
J16(→SCH-11)
:Front audio signal route(Lch)
:Rear audio signal route(Sch)
:Center audio signal route
IC5573:VOLUME MOTOR DRIVE
IC5573
TA8409S
C5579
NP
100/10
J5571
ADX1945
Q5573:
LED DRIVE
Q5573
XDC124ES-T
R5592
C5580
100/16
R5593
4.7
1/2
R5594
560
R5595
560
1/4W
D5578
RD5.1ES82-TP
D5579
RD5.1ES61-TP
C5581
10/50
DIODES
Other diodes (not noted) are HSS104-02
DC.DET
VR5571
2-R5
ACX1095
Cch
VR5571
2-R4
ACX1095
Sch
VR5571
2-R3
ACX1095
Lch
VR5571
2-R2
ACX1095
Rch
VR5571
2-R1
ACX1095
R5596
220
1/4W
C5571
4.7/50
IC5571:
FLAT AMP
IC5571
NJM2220P
C5575
4.7/50
R5571
47.0k
C5582
10/50
R5575
22.0k
R5573
C5573
33p
R5579
220.0k
R5574
C5574
33p
R5576
22.0k
R5580
220.0k
R5572
47.0k
C5583
10/50
C5572
4.7/50
C5576
4.7/50
R5581
100.0k
R5582
100.0k
IC5572:WATT AMP
-VCC
+VCC
D5573
R5585
1.0k
IC5572
XRA4558N-P
D5571
R5583
R5587
39.0k
C5577
0.47/50
D5575
RD5.1ES82-TP
Q5591
2SA1115-T
R5591
4.7k
AKT1077
D5572
R5584
R5588
39.0k
C5578
0.47/50
D5576
RD5.1ES82-TP
D5574
R5586
1.0k
R5597
220
1/4W
L
AG
R
A.MUTE
J17
DYT04-300-2651
Q5591:
BUFFER
AWZ5708
F.MUTE Assy
Q5571
2SC2878-T
CN17
AKT1077
R5589
4.7k
R5577
1.0k
C101
4.7/50
R5578
1.0k
C102
4.7/50
R5590
4.7k
Q5572
2SC2878-T
Q5571,
Q5572:
MUTE
CN117
KP200I87L
POWER AMP ASSY
CN17(→SCH-8)
CN156
KP200I8 5L
R IN
AG
L IN
MRG
S IN
ADG
S OUT
TV 12V
C IN
-12V
C OUT
+12V
R WATT
L WATT
A.MUTE
TONE ASSY (AWZ5420:VSX-D903S)
(AWZ5723:VSX-D933S)
(AWZ5426:VSX-D703S,VSX-53,VSX-D603S AND VSX-D613S)
(AWZ5725:VSX-D633S)
VSX-D903S AND VSX-D933S ONLY
R631
2.2
1/4W
AKT1009
5V
GND
L WATT
R WATT
B.U POWER
B.U POWER
J32
D1BA06-250-2651
GUI ASSY
CN32(→SCH-4)
Q577:
BUFFER
Q577
2SA1115-T
D578
D577
HSS104-02-TP
HSS104-02-TP
R621
4.7k
C605
0.01
IC573:
FLAT AMP
IC574:
WATT AMP
R628
220
1/4W
C586
4.7/50
R602
47.0k
1/10W
C590
10/50
IC573
NJM2220P
R606
22.0k
1/10W
R604
C592
150p
C594
4.7/50
R612
100.0k
IC574
XRA4558N-P
VCC
D574
R616
1.0k
D572
R614
R618
39.0k
C596
0.47/50
D576
RD5.1ES82-TP
R610
270.0k
1/10W
R680
R679
R601
47.0k
1/10W
C589
10/50
R603
C591
150p
R605
22.0k
1/10W
R609
270.0k
1/10W
R613
D571
R617
39.0k
C595
0.47/50
D575
RD5.1ES82-TP
C593
4.7/50
R611
100.0k
D573
R615
1.0k
-VCC
C587
4.7/50
R627
220
1/4W
R624

	R5573,R5574	R5583,R5584
AWZ5421	5.6k	330k
AWZ5724	11k	620k

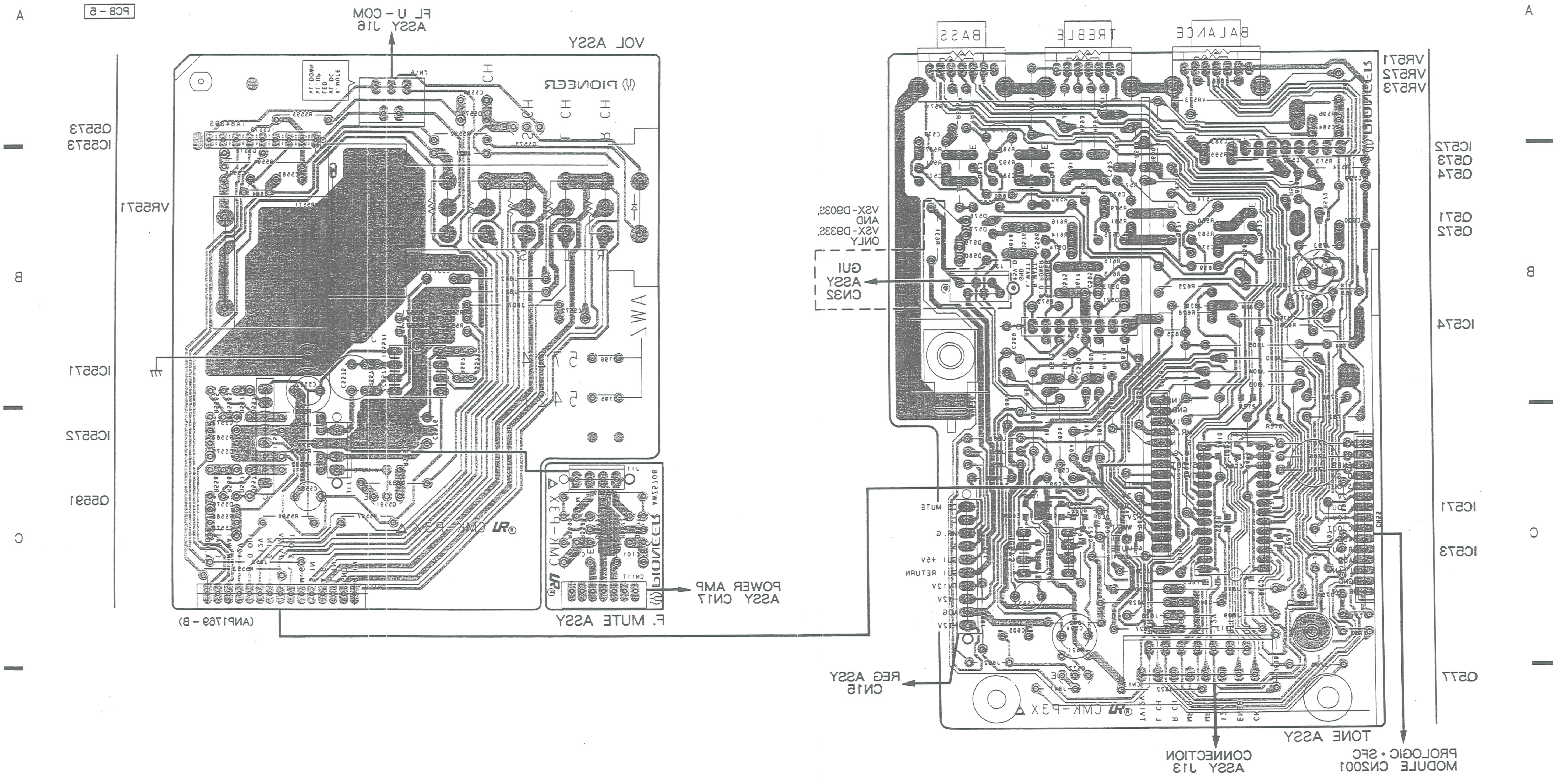
	R603 R604	R613 R614
AWZ5420 AWZ5426	5.6k	330k
AWZ5723 AWZ5725	11k	620k

TONE ASSY,
VOL ASSY,
F. MUTE ASSY

SCH-6

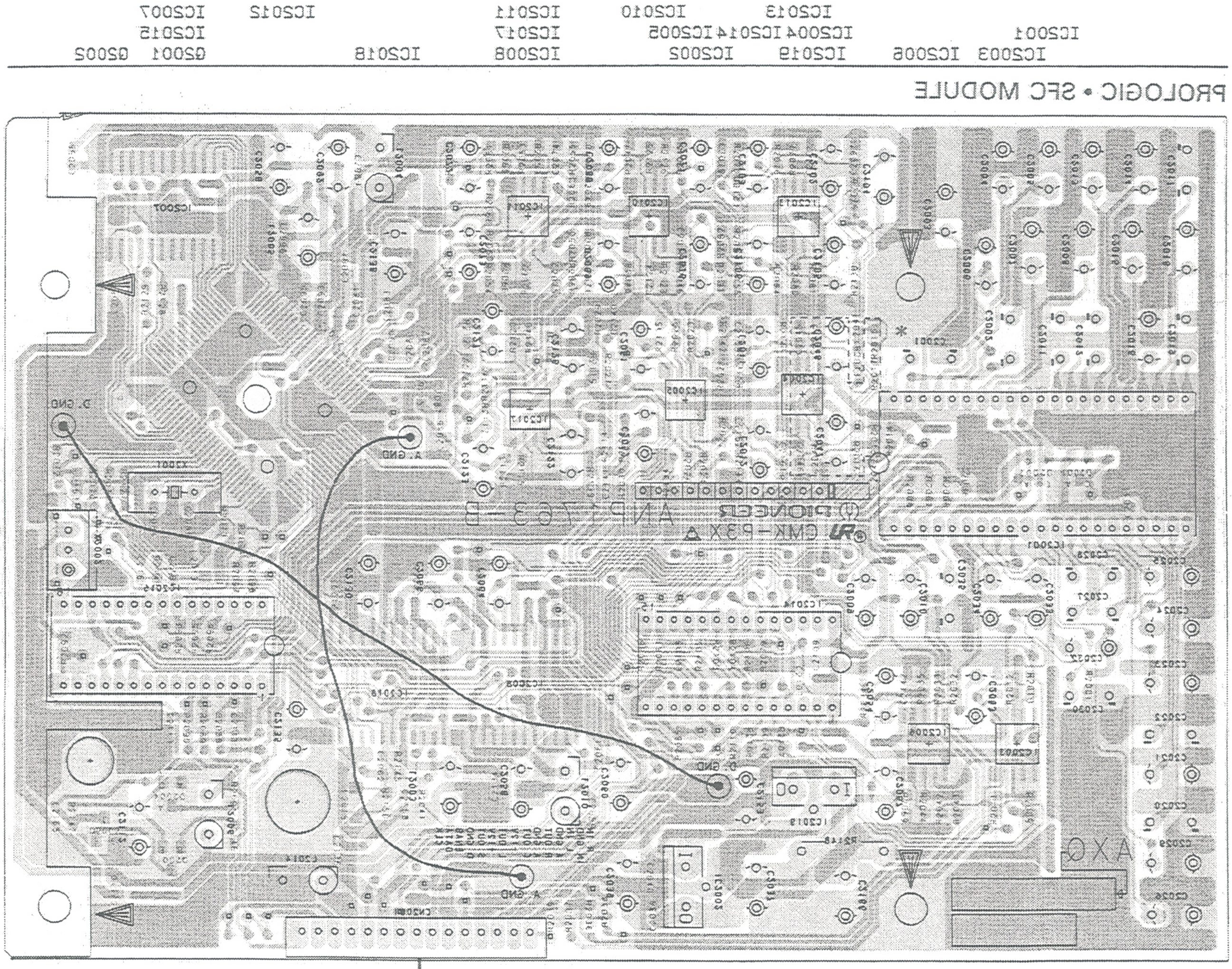

PCB – 5
BALANCE
TREBLE
BASS
VR571
VR572
VR573
IC572
Q573
Q574
Q571
Q572
IC574
IC571
IC573
Q577
VSX-D903S, AND VSX-D933S, ONLY
GUI ASSY CN32
REG ASSY CN15
TONE ASSY
PROLOGIC • SFC MODULE CN2001
CONNECTION ASSY J13
CMK-P3X
FL U-COM ASSY J16
VOL ASSY
PIONEER
Q5573
IC5573
VR5571
IC5571
IC5572
Q5591
POWER AMP ASSY CN17
F. MUTE ASSY
AWZ5708
(ANP1769 – B)

• This diagram is viewed from the mounted parts side.


PCB – 5
FL U – COM
ASSY J16
VOL ASSY
Q5573
IC5573
VR5571
IC5571
IC5572
Q5591
(ANP1769 – B)
F. MUTE ASSY
POWER AMP
ASSY CN17
VSX-D903S
AND
VSX-D933S
ONLY
GUI
ASSY
CN32
REG ASSY
CN15
BASS
TREBLE
BALANCE
VR571
VR572
VR573
IC572
Q573
Q574
Q571
Q572
IC574
IC571
IC573
Q577
TONE ASSY
CONNECTION
ASSY J13
PROLOGIC • SFC
MODULE CN2001
A
B
C
D
1
2
3
4
5
6

• This diagram is viewed from the foil side.

A



B

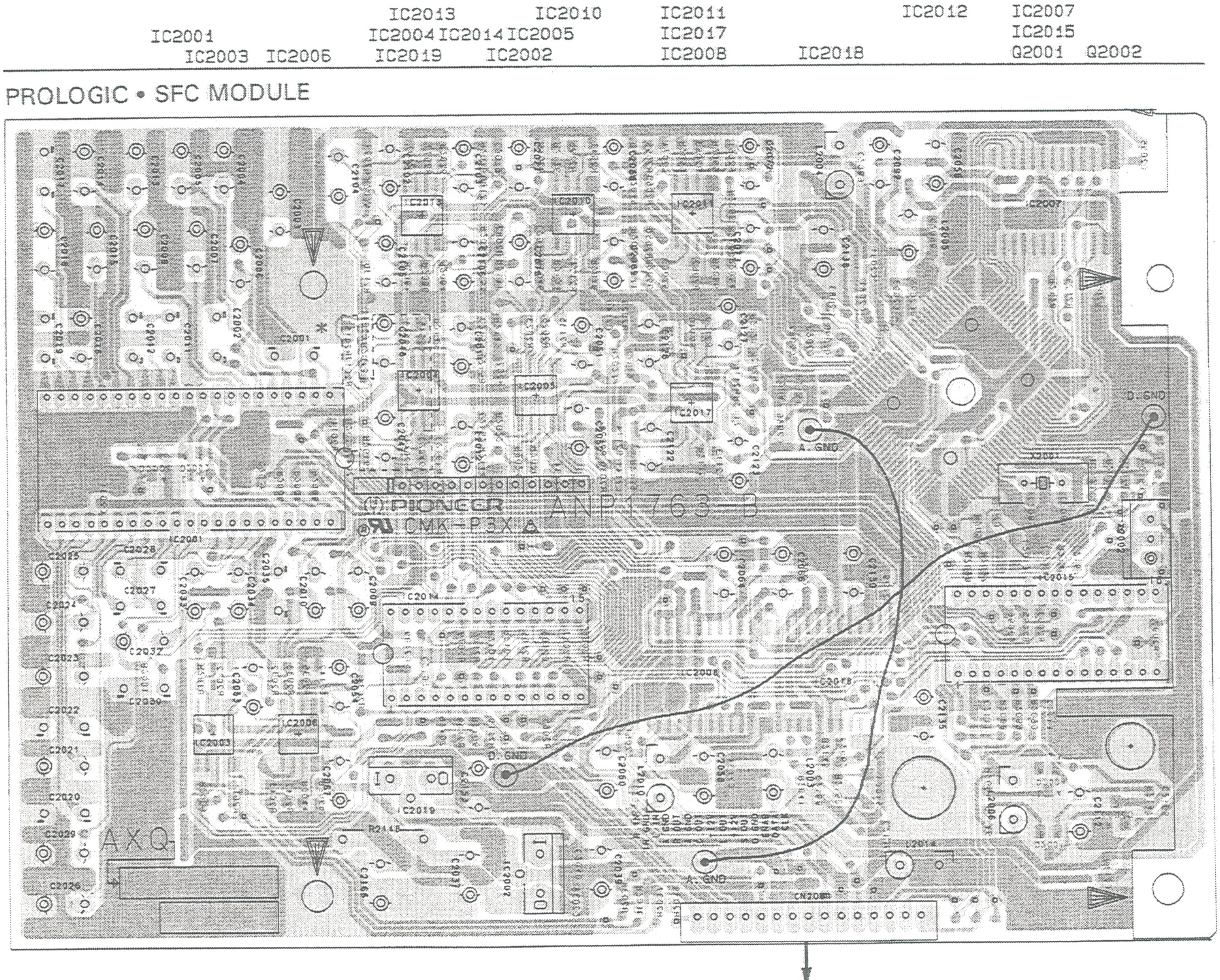
C

- This diagram is viewed from the gray colored foil side.
- This PCB is double sided.

D

5.7 PROLOGIC • SFC MODULE

PCB-6


IC2001
IC2003
IC2006
IC2013
IC2004
IC2019
IC2014
IC2010
IC2005
IC2002
IC2011
IC2017
IC2008
IC2018
IC2012
IC2007
IC2015
Q2001
Q2002
PROLOGIC • SFC MODULE
PIONEER
ANP1763-B
CMK-P3X
AXQ
A. GND
D. GND
CN2081
TONE ASSY
CN55

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

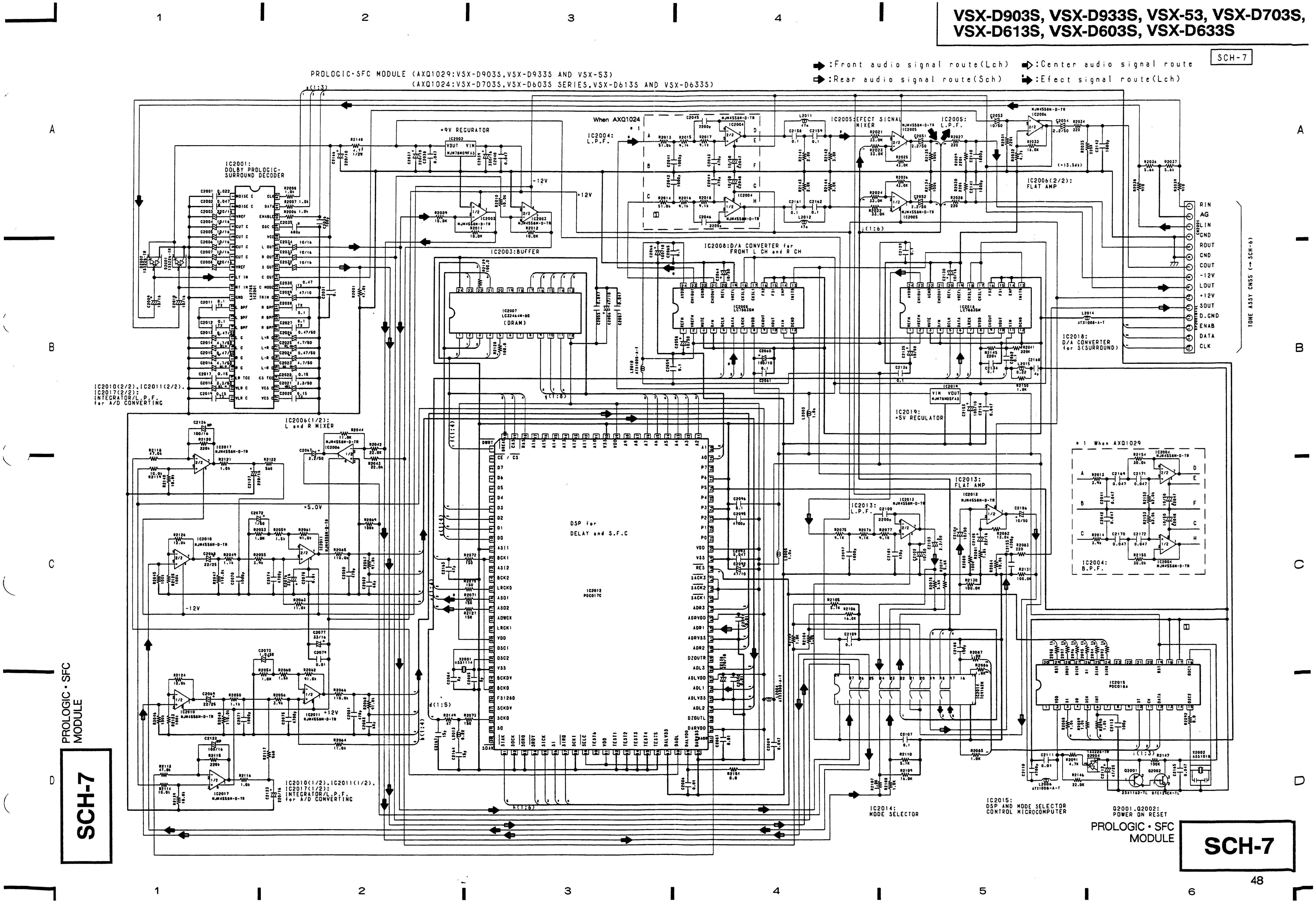
NOTE : Parts marked ＊ are replaced as follows.
(PCB diagram shows for VSX-D703S, VSX-D603S, VSX-D613S and VSX-D633S.)

VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S	VSX-D903S, VSX-D933S AND VSX-53
R2015	C2169
R2016	C2170
R2017	C2171
R2018	C2172
C2043	R2152
C2044	R2153
C2045	R2154
C2046	R2155

SCH-7

PROLOGIC·SFC MODULE (AXQ1029:VSX-D903S,VSX-D933S AND VSX-53)
(AXQ1024:VSX-D703S,VSX-D603S SERIES,VSX-D613S AND VSX-D633S)

➡ :Front audio signal route(Lch)
⇨ :Rear audio signal route(Sch)
➡ :Center audio signal route
➡ :Efect signal route(Lch)


1
2
3
4
5
6
A
B
C
D
IC2001:
DOLBY PROLOGIC-
SURROUND DECODER
+9V REGURATOR
IC2002
NJM78M09FA
IC2003:BUFFER
When AXQ1024
IC2004:
L.P.F.
IC2005:EFECT SIGNAL
MIXER
IC2005:
L.P.F.
IC2006(2/2):
FLAT AMP
IC2008:D/A CONVERTER for
FRONT L CH and R CH
IC2007
LC3246HM-80
(DRAM)
IC2018:
D/A CONVERTER
for S(SURROUND)
IC2019:
+5V REGULATOR
IC2010(2/2),IC2011(2/2),
IC2017(2/2):
INTEGRATOR/L.P.F.
for A/D CONVERTING
IC2006(1/2):
L and R MIXER
DSP for
DELAY and S.F.C
IC2012
PDC017C
*1 When AXQ1029
IC2004:
B.P.F.
IC2013:
FLAT AMP
IC2013:
L.P.F.
IC2010(1/2),IC2011(1/2),
IC2017(1/2):
INTEGRATOR/L.P.F.
for A/D CONVERTING
IC2014:
MODE SELECTOR
IC2015:
DSP AND MODE SELECTOR
CONTROL MICROCOMPUTER
IC2015
PDC018A
Q2001,Q2002:
POWER ON RESET
RIN
AG
LIN
GND
ROUT
GND
COUT
-12V
LOUT
+12V
SOUT
D.GND
ENAB
DATA
CLK
TONE ASSY CN55 (→ SCH-6)
+12V
-12V
+5.0V
-12V

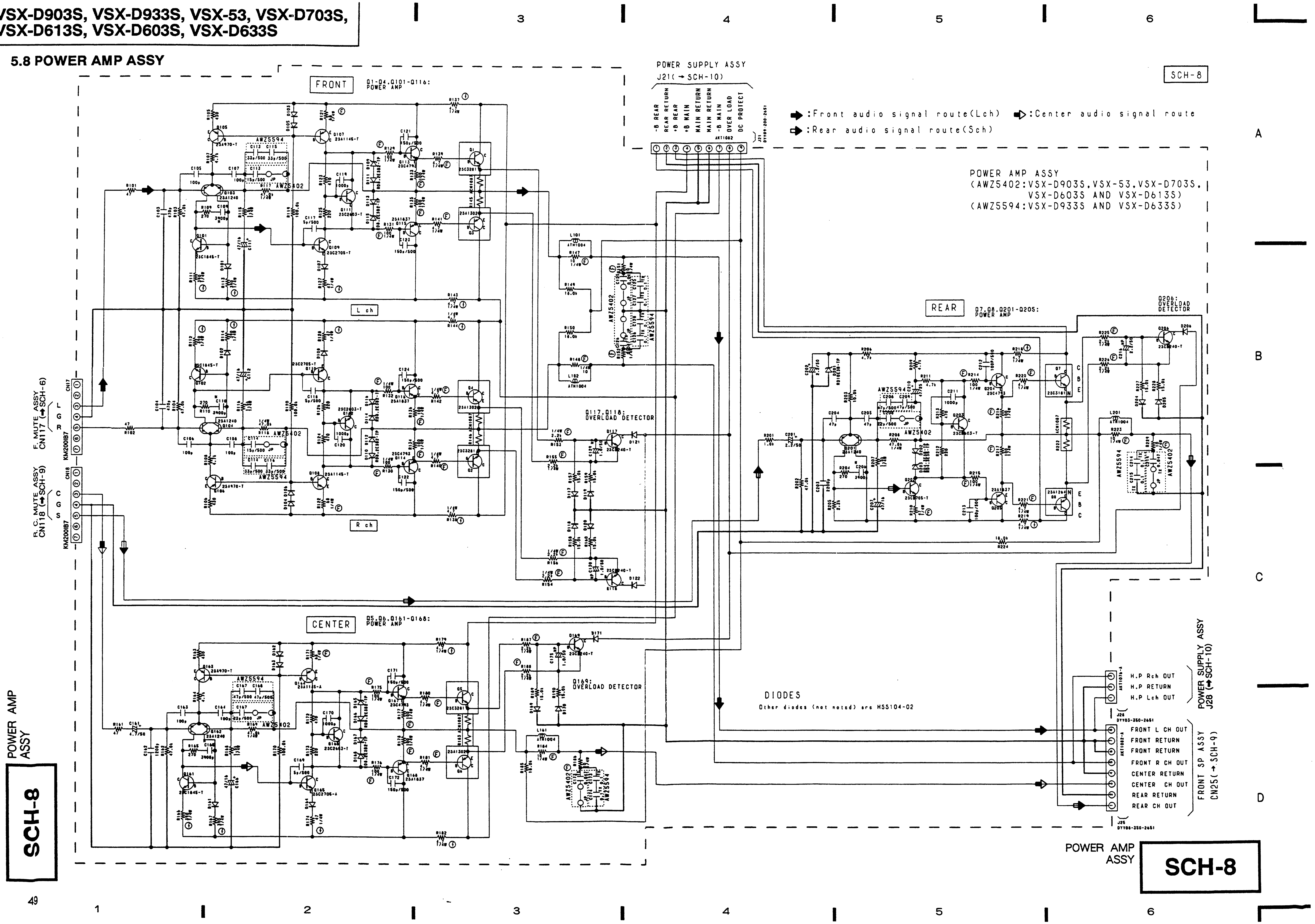
PROLOGIC · SFC
MODULE

SCH-7

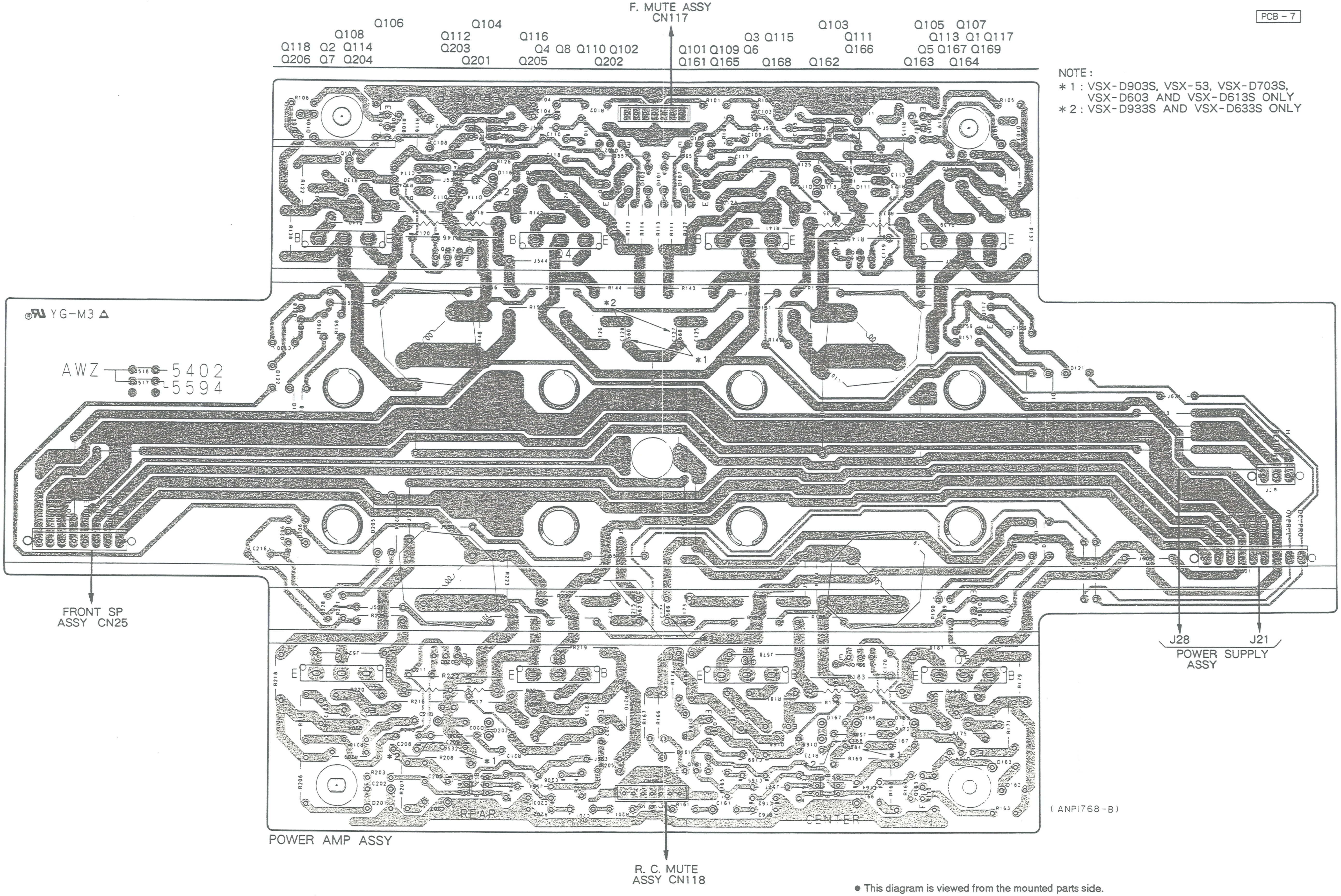
PROLOGIC · SFC
MODULE

SCH-7

5.8 POWER AMP ASSY


1
2
3
4
5
6
A
B
C
D
FRONT
Q1-Q4, Q101-Q116:
POWER AMP
L ch
R ch
CENTER
Q5, Q6, Q161-Q168:
POWER AMP
REAR
Q7, Q8, Q201-Q205:
POWER AMP
Q206:
OVERLOAD
DETECTOR
Q117, Q118:
OVERLOAD DETECTOR
Q169:
OVERLOAD DETECTOR
AWZ5594
AWZ5402
POWER SUPPLY ASSY
J21 (→ SCH-10)
-B REAR
REAR RETURN
+B REAR
+B MAIN
MAIN RETURN
MAIN RETURN
-B MAIN
OVER LOAD
DC PROTECT
AKT1082
J21
DYY09-200-2651
:Front audio signal route(Lch)
:Center audio signal route
:Rear audio signal route(Sch)
SCH-8
POWER AMP ASSY
(AWZ5402:VSX-D903S, VSX-53, VSX-D703S,
VSX-D603S AND VSX-D613S)
(AWZ5594:VSX-D933S AND VSX-D633S)
F. MUTE ASSY
CN117 (→SCH-6)
L
G
R
KM200IB7
R.C. MUTE ASSY
CN118 (→SCH-9)
C
G
S
KM200IB7
DIODES
Other diodes (not noted) are HSS104-02
POWER SUPPLY ASSY
J28 (→SCH-10)
H.P Rch OUT
H.P RETURN
H.P Lch OUT
AKT1076-A
J28
DYY03-350-2651
FRONT L CH OUT
FRONT RETURN
FRONT RETURN
FRONT R CH OUT
CENTER RETURN
CENTER CH OUT
REAR RETURN
REAR CH OUT
AKT1082-A
FRONT SP ASSY
CN25 (→SCH-9)
J25
DYY08-350-2651
POWER AMP ASSY
SCH-8
POWER AMP ASSY
SCH-8

NOTE :
∗ 1 : VSX-D903S, VSX-53, VSX-D703S, VSX-D603 AND VSX-D613S ONLY
∗ 2 : VSX-D933S AND VSX-D633S ONLY

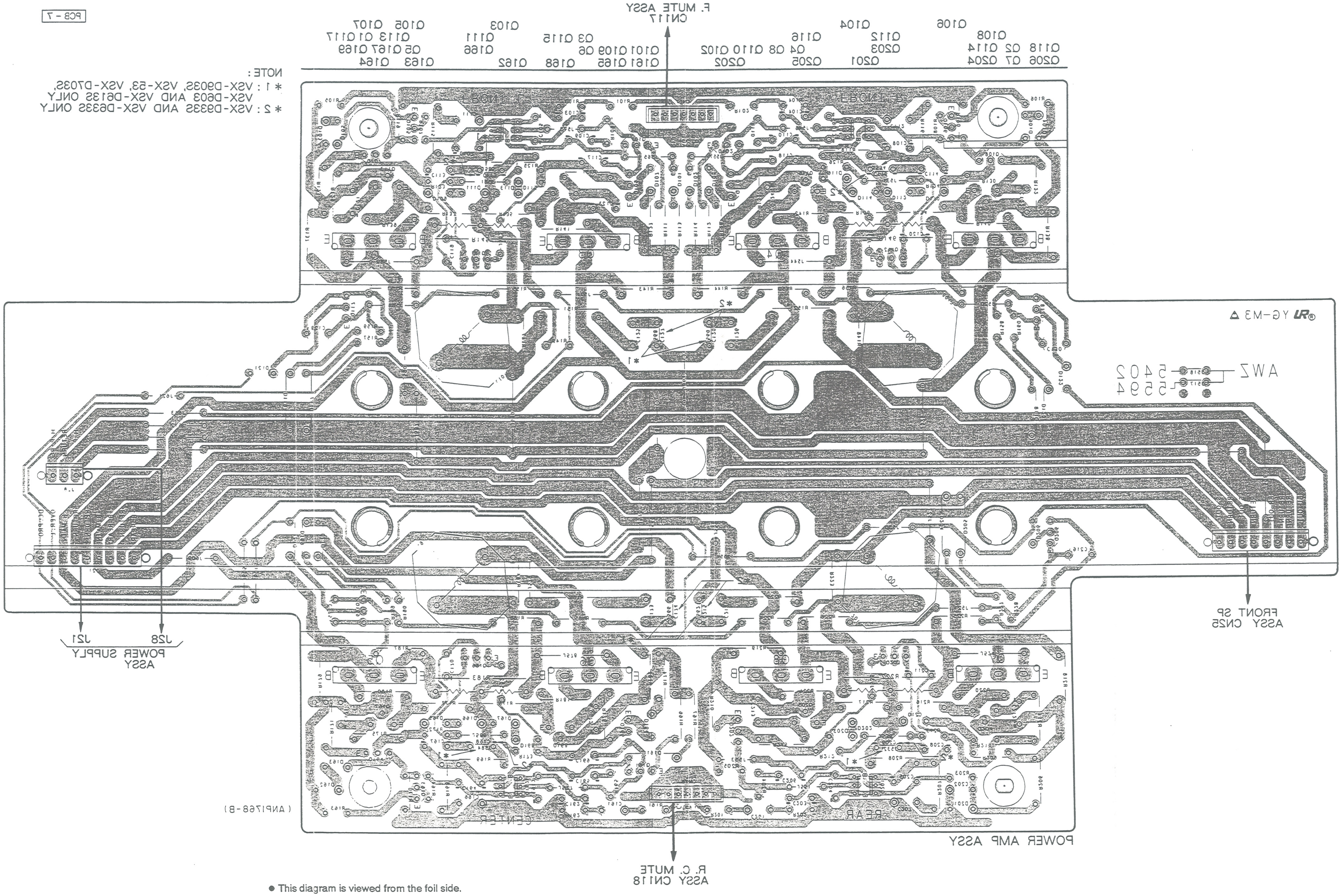

F. MUTE ASSY
CN117
Q106
Q108
Q118 Q2 Q114
Q206 Q7 Q204
Q104
Q112
Q203
Q201
Q116
Q4 Q8 Q110 Q102
Q205 Q202
Q3 Q115
Q101 Q109 Q6
Q161 Q165 Q168 Q162
Q103
Q111
Q166
Q105 Q107
Q113 Q1 Q117
Q5 Q167 Q169
Q163 Q164
YG-M3
AWZ
5402
5594
∗2
∗1
FRONT SP
ASSY CN25
J28
J21
POWER SUPPLY
ASSY
(ANP1768-B)
REAR
CENTER
POWER AMP ASSY
R. C. MUTE
ASSY CN118

● This diagram is viewed from the mounted parts side.

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

PCB-7

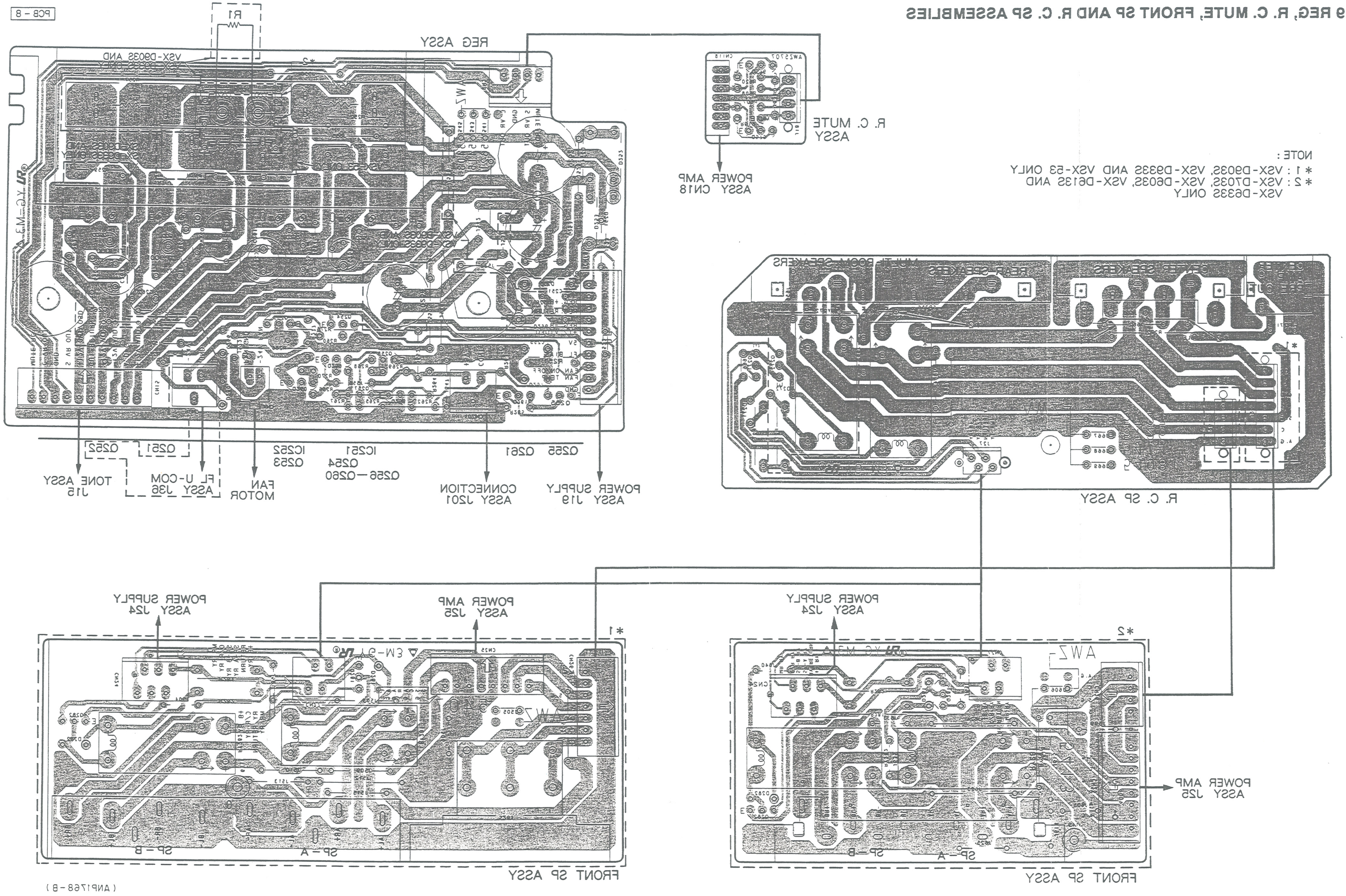
NOTE :
* 1 : VSX-D903S, VSX-53, VSX-D703S, VSX-D603 AND VSX-D613S ONLY
* 2 : VSX-D933S AND VSX-D633S ONLY


Q106 Q107
Q113 Q1 Q117
Q5 Q167 Q169
Q163 Q164
Q103
Q111
Q166
Q162
Q3 Q115
Q101 Q109 Q6
Q168
Q161 Q165
F. MUTE ASSY
CN117
Q116
Q4 Q8 Q110 Q102
Q202
Q104
Q112
Q203
Q205 Q201
Q106
Q108
Q118 Q2 Q114
Q206 Q7 Q204
AWZ 5402
5594
YG-M3
*1
*2
J21 J28
POWER SUPPLY ASSY
FRONT SP ASSY CN25
CENTER
REAR
POWER AMP ASSY
R. C. MUTE ASSY CN118
(ANP1768-B)
A
B
C
D

● This diagram is viewed from the foil side.

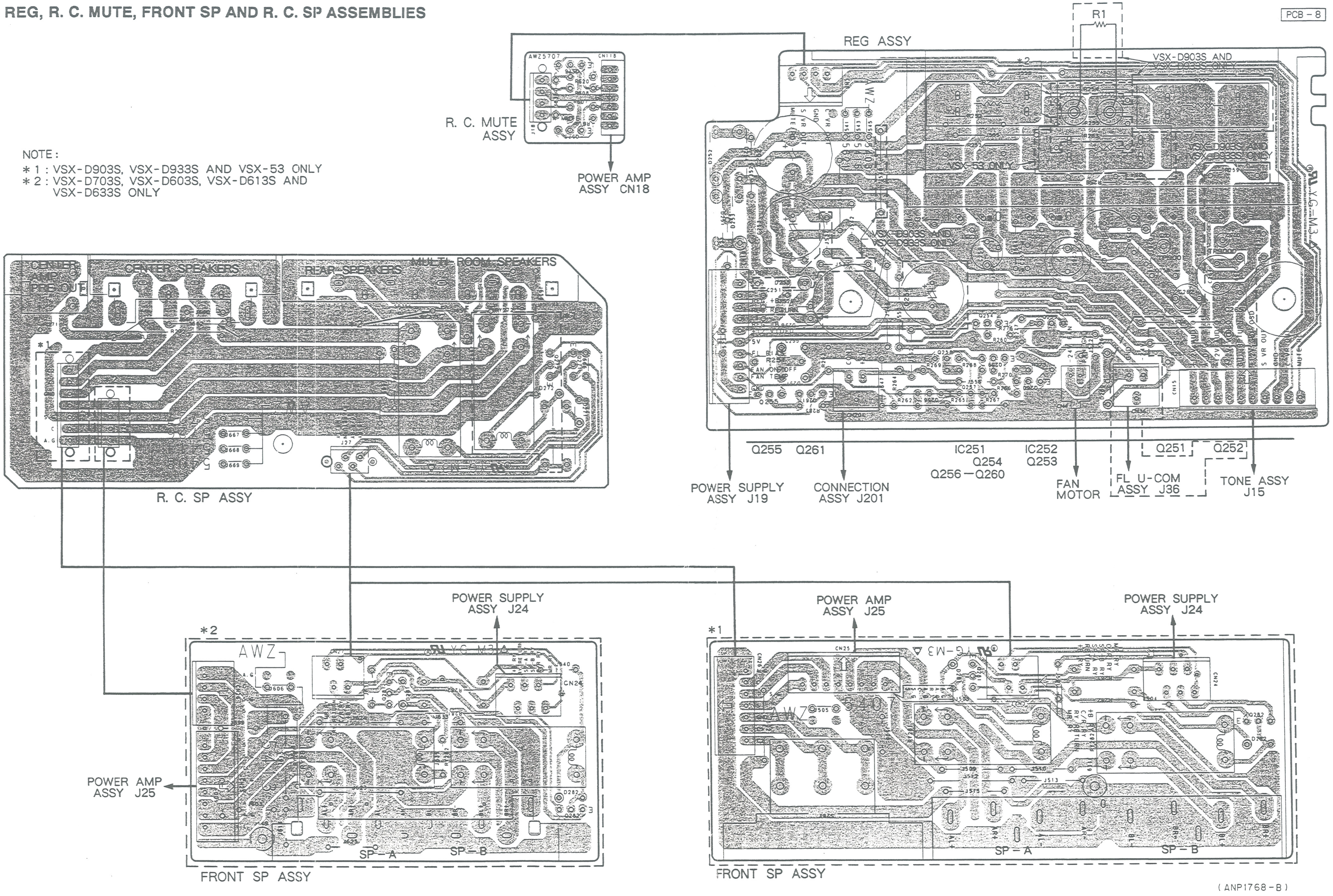
5.9 REG, R. C. MUTE, FRONT SP AND R. C. SP ASSEMBLIES

NOTE :
*1 : VSX-D903S, VSX-D333S AND VSX-53 ONLY
*2 : VSX-D703S, VSX-D603S, VSX-D613S AND VSX-D633S ONLY


PCB-8
R1
REG ASSY
VSX-D903S AND VSX-D333S ONLY
*2
R. C. MUTE ASSY
CN18
POWER AMP ASSY CN18
Q252
Q251
IC252
Q253
IC251
Q254
Q256—Q260
Q255
Q261
TONE ASSY J15
FL U-COM ASSY J36
FAN MOTOR
CONNECTION ASSY J201
POWER SUPPLY ASSY J19
MULTI ROOM SPEAKERS
REAR SPEAKERS
CENTER SPEAKERS
*1
R. C. SP ASSY
POWER SUPPLY ASSY J24
POWER AMP ASSY J25
*1
SP-B
SP-A
FRONT SP ASSY
POWER SUPPLY ASSY J24
*2
AWZ
POWER AMP ASSY J25
SP-B
SP-A
FRONT SP ASSY
(ANP1768-B)

• This diagram is viewed from the foil side.

5.9 REG, R. C. MUTE, FRONT SP AND R. C. SP ASSEMBLIES



NOTE :
∗ 1 : VSX-D903S, VSX-D933S AND VSX-53 ONLY
∗ 2 : VSX-D703S, VSX-D603S, VSX-D613S AND
VSX-D633S ONLY

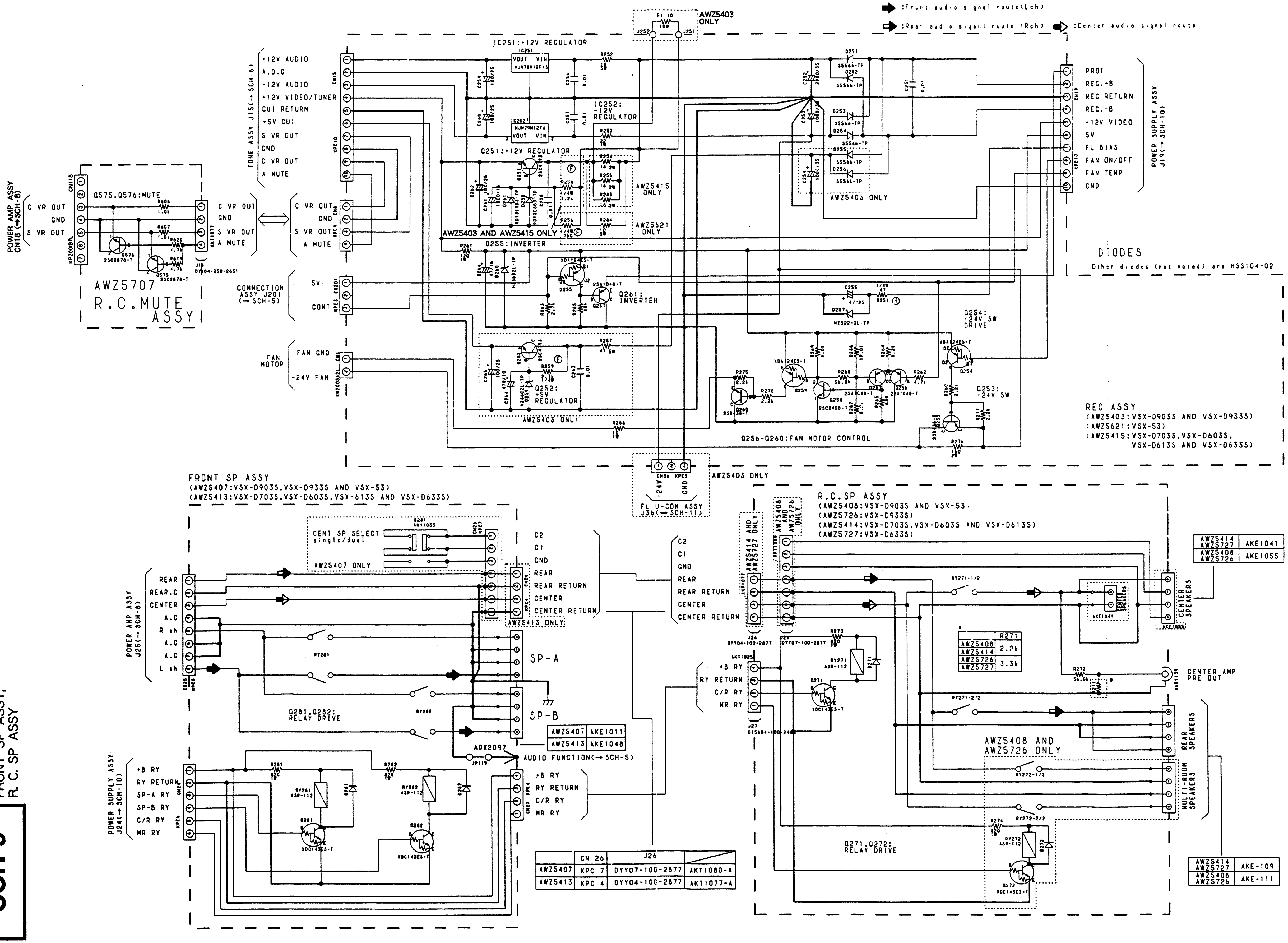
PCB – 8
R1
REG ASSY
∗2
VSX-D903S AND
VSX-D933S ONLY
VSX-53 ONLY
VSX-D903S AND
VSX-D933S ONLY
VSX-D903S AND
VSX-D933S ONLY
AWZ5707
CN118
R. C. MUTE
ASSY
POWER AMP
ASSY CN18
Q255 Q261
IC251
Q254
Q256 – Q260
IC252
Q253
Q251
Q252
POWER SUPPLY
ASSY J19
CONNECTION
ASSY J201
FAN
MOTOR
FL U-COM
ASSY J36
TONE ASSY
J15
CENTER
AMP
PRE OUT
CENTER SPEAKERS
REAR SPEAKERS
MULTI-ROOM SPEAKERS
∗1
R. C. SP ASSY
POWER SUPPLY
ASSY J24
∗2
AWZ
POWER AMP
ASSY J25
SP – A
SP – B
FRONT SP ASSY
∗1
POWER AMP
ASSY J25
POWER SUPPLY
ASSY J24
SP – A
SP – B
FRONT SP ASSY
(ANP1768 – B)

● This diagram is viewed from the mounted parts side.

➡ :Front audio signal route(Lch)

⇨ :Rear audio signal route (Rch)

▷ :Center audio signal route


AWZ5403 ONLY
IC251:+12V REGULATOR
IC252: -12V REGULATOR
Q251:+12V REGULATOR
Q252: +5V REGULATOR
Q255:INVERTER
Q261: INVERTER
Q254: -24V SW DRIVE
Q253: -24V SW
Q256-Q260:FAN MOTOR CONTROL
AWZ5415 ONLY
AWZ5621 ONLY
AWZ5403 AND AWZ5415 ONLY
TONE ASSY J15(→ SCH-6)
+12V AUDIO
A.D.G
-12V AUDIO
+12V VIDEO/TUNER
CUI RETURN
+5V CUI
S VR OUT
GND
C VR OUT
A MUTE
CONNECTION ASSY J201 (→ SCH-5)
5V
CONT
FAN MOTOR
FAN GND
-24V FAN
POWER SUPPLY ASSY J19(→ SCH-10)
PROT
REC.+B
REC RETURN
REC.-B
+12V VIDEO
5V
FL BIAS
FAN ON/OFF
FAN TEMP
GND
DIODES
Other diodes (not noted) are HSS104-02
REG ASSY
(AWZ5403:VSX-D903S AND VSX-D933S)
(AWZ5621:VSX-53)
(AWZ5415:VSX-D703S,VSX-D603S, VSX-D613S AND VSX-D633S)
POWER AMP ASSY CN18 (→ SCH-6)
Q575,Q576:MUTE
AWZ5707 R.C.MUTE ASSY
FL U-COM ASSY J36(→ SCH-11)
-24V
GND
FRONT SP ASSY
(AWZ5407:VSX-D903S,VSX-D933S AND VSX-53)
(AWZ5413:VSX-D703S,VSX-D603S,VSX-613S AND VSX-D633S)
CENT SP SELECT single/dual
AWZ5407 ONLY
AWZ5413 ONLY
POWER AMP ASSY J25(→ SCH-6)
REAR
REAR.G
CENTER
A.G
R ch
L ch
C2
C1
GND
REAR RETURN
CENTER RETURN
SP-A
SP-B
Q281,Q282: RELAY DRIVE
ADX2097
AUDIO FUNCTION(→ SCH-5)
POWER SUPPLY ASSY J24(→ SCH-10)
+B RY
RY RETURN
SP-A RY
SP-B RY
C/R RY
MR RY
R.C.SP ASSY
(AWZ5408:VSX-D903S AND VSX-53)
(AWZ5726:VSX-D933S)
(AWZ5414:VSX-D703S,VSX-D603S AND VSX-D613S)
(AWZ5727:VSX-D633S)
AWZ5414 AND AWZ5727 ONLY
AWZ5408 AND AWZ5726 ONLY
CENTER SPEAKERS
CENTER AMP PRE OUT
REAR SPEAKERS
MULTI-ROOM SPEAKERS
Q271,Q272: RELAY DRIVE

	CN 26	J26	
AWZ5407	KPC 7	DYY07-100-2877	AKT1080-A
AWZ5413	KPC 4	DYY04-100-2877	AKT1077-A

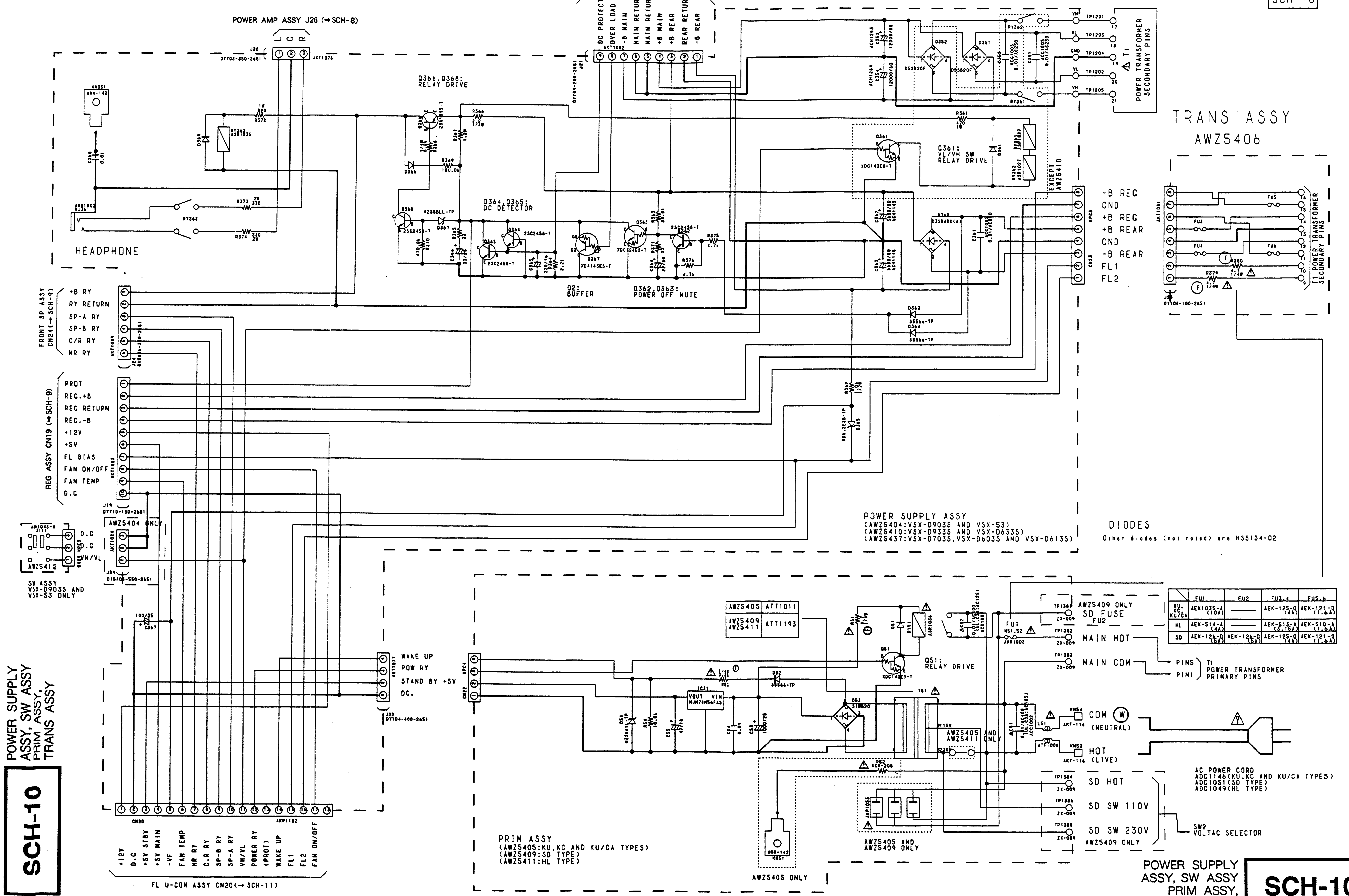
	R271
AWZ5408	2.2k
AWZ5414	2.2k
AWZ5726	3.3k
AWZ5727	3.3k

AWZ5407	AKE1011
AWZ5413	AKE1048

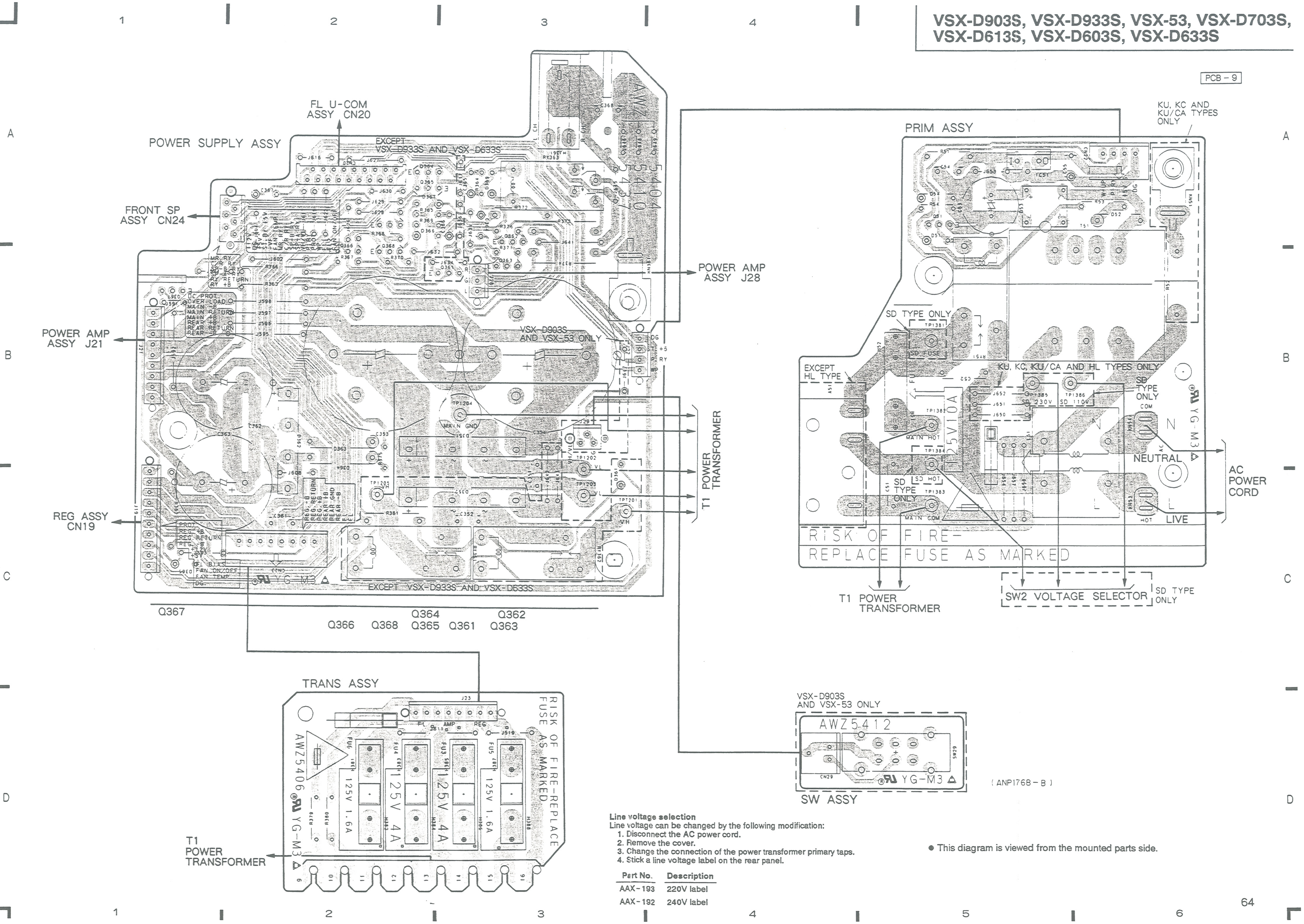
AWZ5414 AWZ5727	AKE1041
AWZ5408 AWZ5726	AKE1055

AWZ5414 AWZ5727	AKE-109
AWZ5408 AWZ5726	AKE-111

5.10 POWER SUPPLY, SW, PRIM AND TRANS ASSEMBLIES


POWER AMP ASSY J21 (→ SCH-8)
DC PROTECT
OVER LOAD
-B MAIN
MAIN RETURN
MAIN RETURN
+B MAIN
+B REAR
REAR RETURN
-B REAR
POWER AMP ASSY J28 (→SCH-8)
L G R
HEADPHONE
Q366,Q368: RELAY DRIVE
Q364,Q365: DC DETECTOR
Q2: BUFFER
Q362,Q363: POWER OFF MUTE
Q361: VL/VH SW RELAY DRIVE
EXCEPT AWZ5410
POWER TRANSFORMER SECONDARY PINS
T1
TRANS ASSY
AWZ5406
-B REG
GND
+B REG
+B REAR
GND
-B REAR
FL1
FL2
T1 POWER TRANSFORMER SECONDARY PINS
FRONT SP ASSY CN24 (→ SCH-9)
+B RY
RY RETURN
SP-A RY
SP-B RY
C/R RY
MR RY
REG ASSY CN19 (→SCH-9)
PROT
REG.+B
REG RETURN
REG.-B
+12V
+5V
FL BIAS
FAN ON/OFF
FAN TEMP
D.G
AWZ5404 ONLY
D.G
D.G
VH/VL
AWZ5412
SW ASSY
VSX-D903S AND VSX-53 ONLY
POWER SUPPLY ASSY
(AWZ5404:VSX-D903S AND VSX-53)
(AWZ5410:VSX-D933S AND VSX-D633S)
(AWZ5437:VSX-D703S,VSX-D603S AND VSX-D613S)
DIODES
Other diodes (not noted) are HSS104-02
WAKE UP
POW RY
STAND BY +5V
DC.
AWZ5405 ATT1011
AWZ5409 AWZ5411 ATT1193
Q51: RELAY DRIVE
AWZ5409 ONLY
SD FUSE
FU2
MAIN HOT
MAIN COM
PINS
PIN1
T1
POWER TRANSFORMER
PRIMARY PINS
AWZ5405 AND AWZ5411 ONLY
COM (NEUTRAL)
HOT (LIVE)
AC POWER CORD
ADG1146(KU,KC AND KU/CA TYPES)
ADG1051(SD TYPE)
ADG1049(HL TYPE)
SD HOT
SD SW 110V
SD SW 230V
AWZ5409 ONLY
SW2
VOLTAGE SELECTOR
AWZ5405 AND AWZ5409 ONLY
AWZ5405 ONLY
PRIM ASSY
(AWZ5405:KU,KC AND KU/CA TYPES)
(AWZ5409:SD TYPE)
(AWZ5411:HL TYPE)
+12V
D.G
+5V STBY
+5V MAIN
-VF
FAN TEMP
MR RY
C.R RY
SP-B RY
SP-A RY
VH/VL
POWER RY
(PROT)
WAKE UP
FL1
FL2
FAN ON/OFF
FL U-COM ASSY CN20(→ SCH-11)

	FU1	FU2	FU3,4	FU5,6
KU, KC, KU/CA	AEK1035-A (10A)	—	AEK-125-Q (4A)	AEK-121-Q (1.6A)
HL	AEK-514-A (4A)	—	AEK-513-A (3.15A)	AEK-510-A (1.6A)
SD	AEK-126-Q (5A)	AEK-126-Q (5A)	AEK-125-Q (4A)	AEK-121-Q (1.6A)


PCB – 9
POWER SUPPLY ASSY
FL U-COM ASSY CN20
EXCEPT VSX-D933S AND VSX-D633S
FRONT SP ASSY CN24
POWER AMP ASSY J21
POWER AMP ASSY J28
VSX-D903S AND VSX-53 ONLY
T1 POWER TRANSFORMER
REG ASSY CN19
EXCEPT VSX-D933S AND VSX-D633S
Q367
Q366
Q368
Q364
Q365
Q361
Q362
Q363
PRIM ASSY
KU, KC AND KU/CA TYPES ONLY
SD TYPE ONLY
EXCEPT HL TYPE
KU, KC, KU/CA AND HL TYPES ONLY
SD TYPE ONLY
NEUTRAL
LIVE
AC POWER CORD
SD TYPE ONLY
RISK OF FIRE–
REPLACE FUSE AS MARKED
T1 POWER TRANSFORMER
SW2 VOLTAGE SELECTOR
SD TYPE ONLY
TRANS ASSY
AWZ5406
RISK OF FIRE–REPLACE FUSE AS MARKED
125V 1.6A
125V 4A
125V 4A
125V 1.6A
T1 POWER TRANSFORMER
VSX-D903S AND VSX-53 ONLY
AWZ5412
SW ASSY
(ANP1768-B)
A
B
C
D
1
2
3
4
5
6

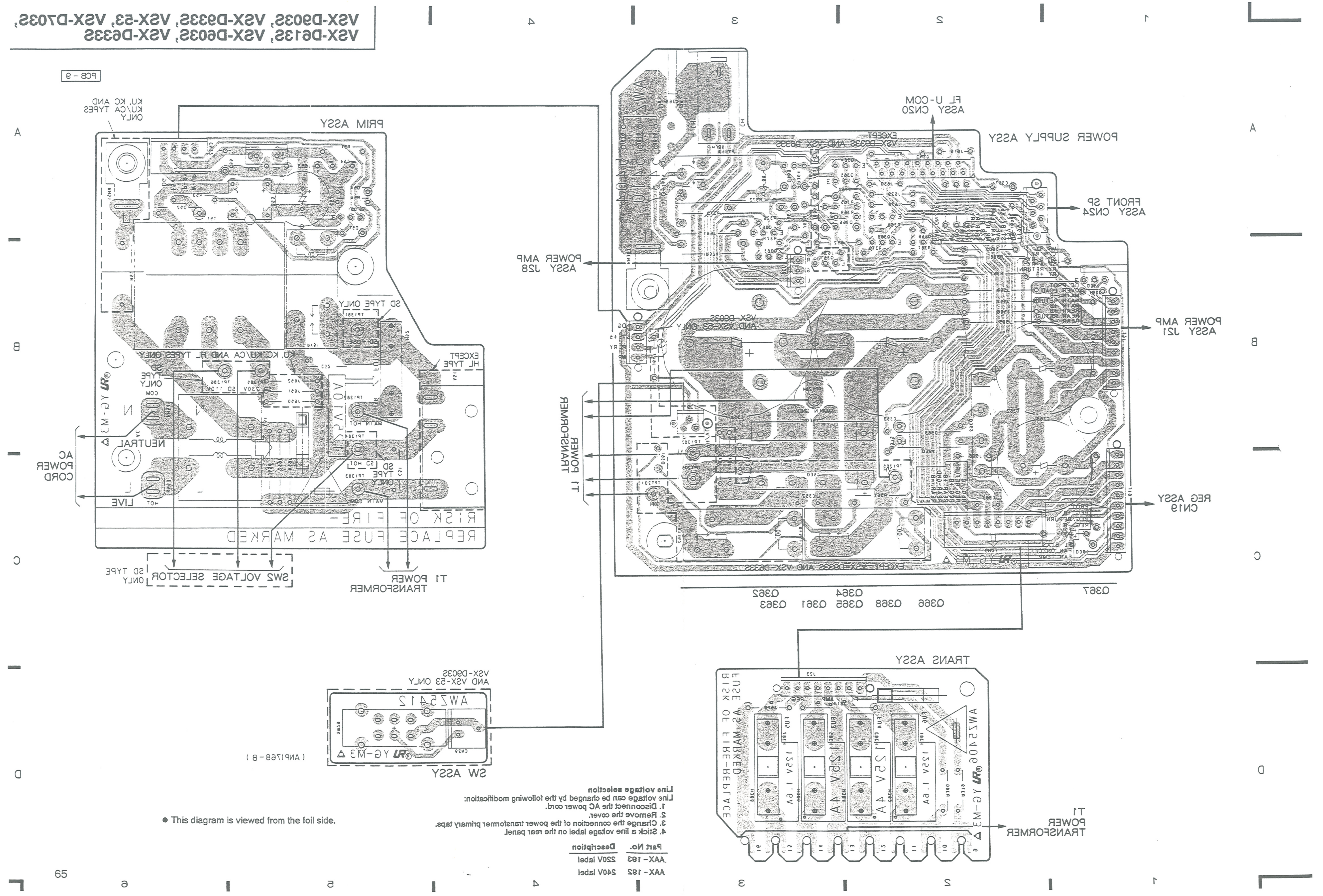
Line voltage selection
Line voltage can be changed by the following modification:
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection of the power transformer primary taps.
4. Stick a line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label

- This diagram is viewed from the mounted parts side.

VSX-D903S, VSX-D933S, VSX-53, VSX-D703S, VSX-D613S, VSX-D603S, VSX-D633S

PCB - 9

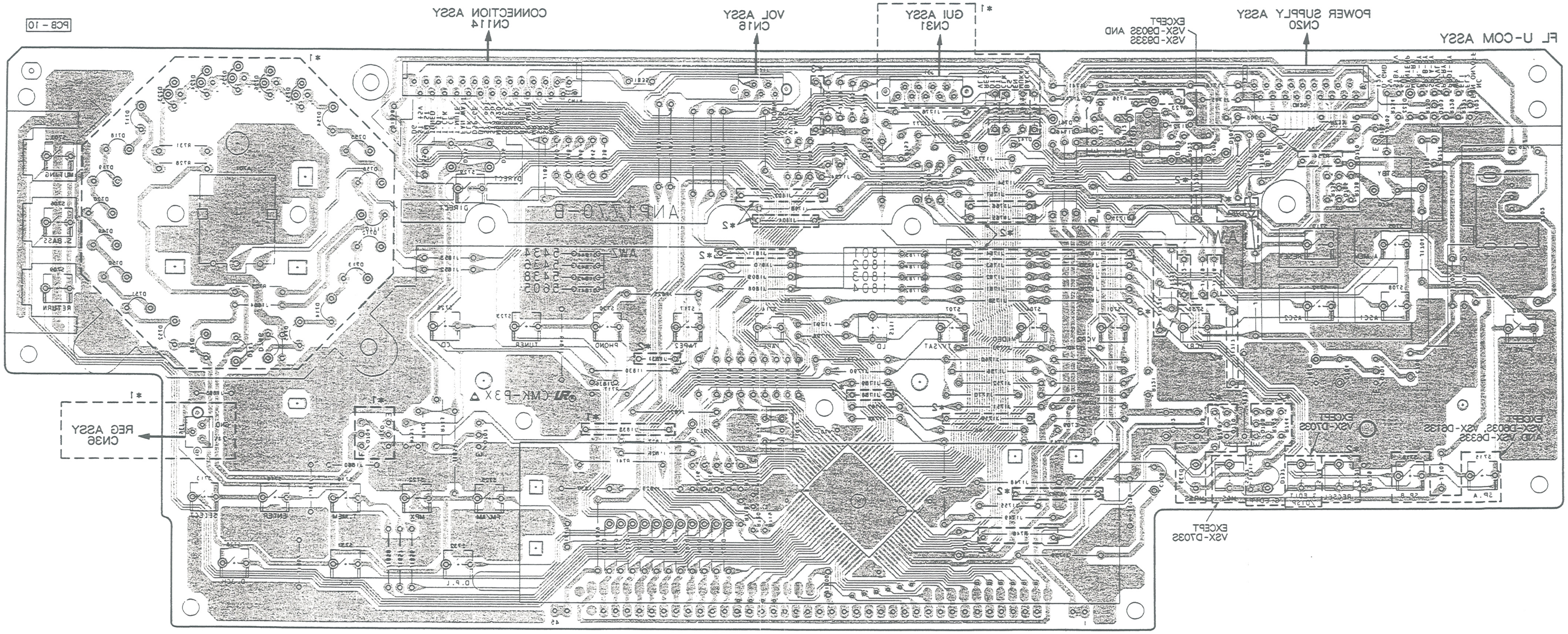

PRIM ASSY
KU, KC AND KU/CA TYPES ONLY
SD TYPE ONLY
EXCEPT HL TYPE
KU, KC, KU/CA AND HL TYPES ONLY
NEUTRAL
LIVE
AC POWER CORD
RISK OF FIRE - REPLACE FUSE AS MARKED
SW2 VOLTAGE SELECTOR
T1 POWER TRANSFORMER
POWER SUPPLY ASSY
FL U-COM ASSY CN20
EXCEPT VSX-D933S AND VSX-D633S
FRONT SP ASSY CN24
POWER AMP ASSY J28
POWER AMP ASSY J21
VSX-D903S AND VSX-53 ONLY
REG ASSY CN19
Q362 Q364 Q367
Q363 Q361 Q365 Q368 Q366
TRANS ASSY
AW25406
125V 1.6A
125V 4A
SW ASSY
AW25412
VSX-D903S AND VSX-53 ONLY
(ANP1768-B)
A
B
C
D
1
2
3
4
5
6

● This diagram is viewed from the foil side.

Line voltage selection

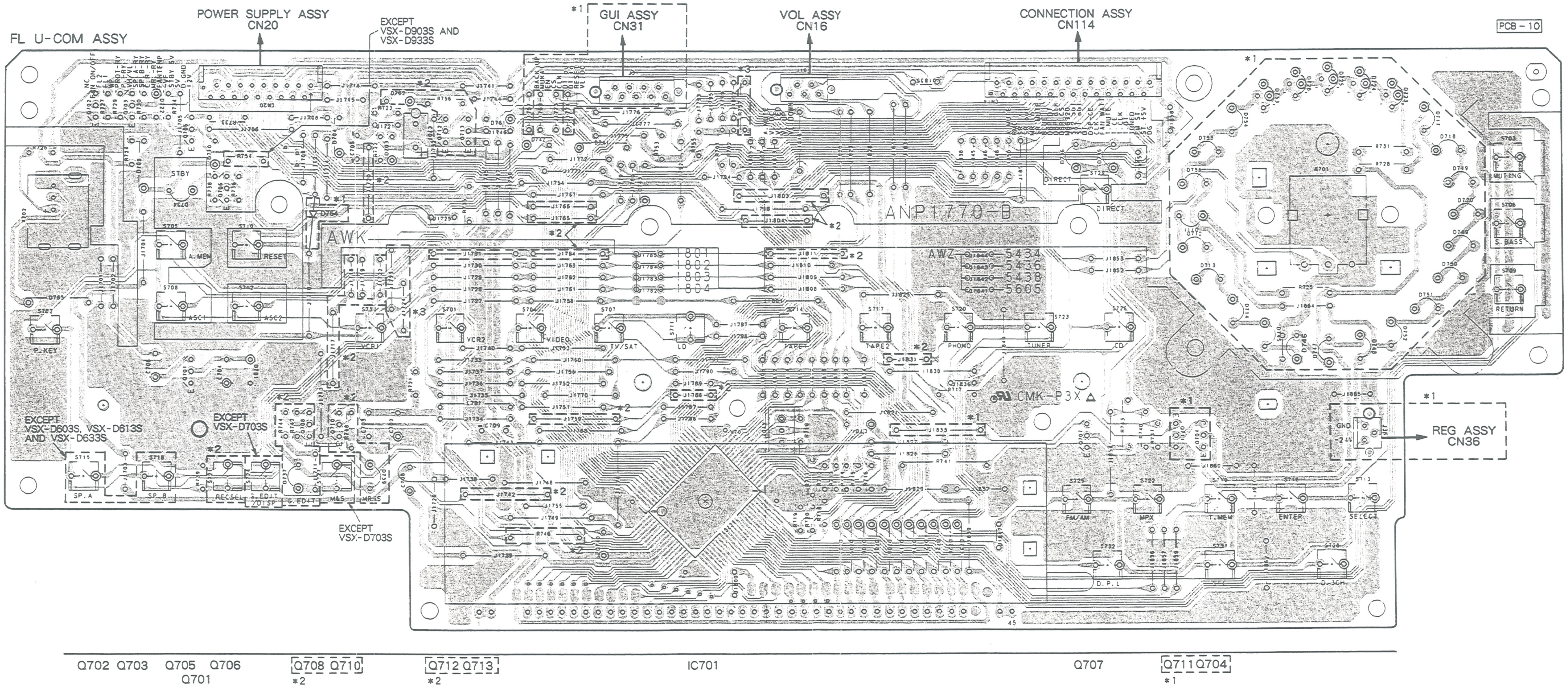
Line voltage can be changed by the following modification:
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection of the power transformer primary taps.
4. Stick a line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label



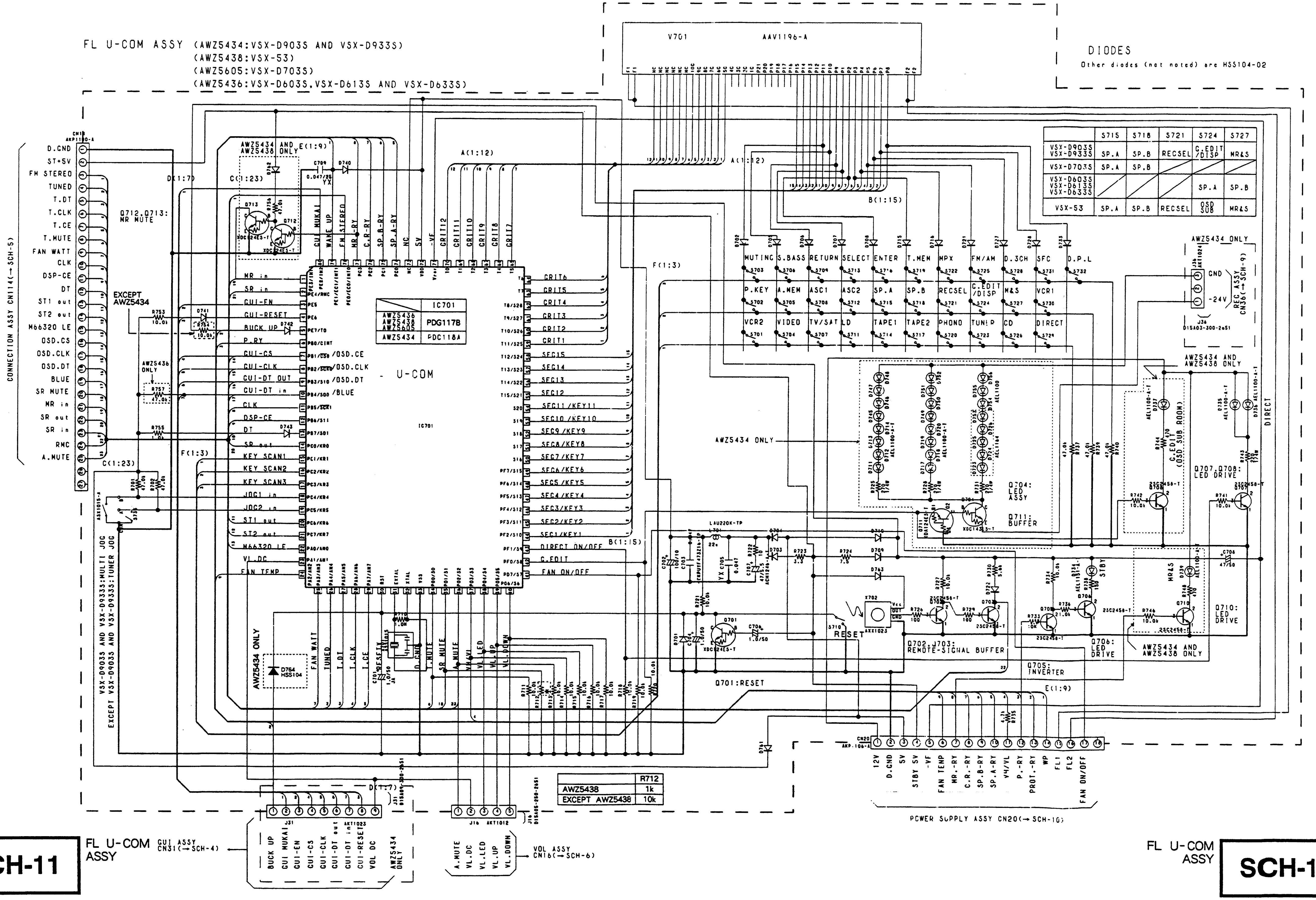
- This diagram is viewed from the foil side.

5.11 FL U-COM ASSY


FL U-COM ASSY
POWER SUPPLY ASSY
CN20
EXCEPT
VSX-D903S AND
VSX-D933S
*1
GUI ASSY
CN31
VOL ASSY
CN16
CONNECTION ASSY
CN114
PCB-10
ANP1770-B
AWK
AWZ-5434
5436
5438
5605
CMK-P3X
REG ASSY
CN36
GND
STBY
A.MEM
RESET
ASC1
ASC2
P.KEY
EXCEPT
VSX-D603S, VSX-D613S
AND VSX-D633S
EXCEPT
VSX-D703S
SP.A
SP.B
REC SEL
S.EDIT
/DISP
G.EDIT
M&S
MRIIS
EXCEPT
VSX-D703S
VCR1
VCR2
VIDEO
TV/SAT
LD
TAPE1
TAPE2
PHONO
TUNER
CD
DIRECT
MUTING
S.BASS
RETURN
FM/AM
MPX
T.MEM
ENTER
SELECT
D.P.L
D.SCH
*2
*3
Q702 Q703 Q705 Q706
Q701
Q708 Q710
*2
Q712 Q713
*2
IC701
Q707
Q711 Q704
*1

NOTE ;
*1 : VSX-D903S AND VSX-D933S ONLY
*2 : VSX-D903S, VSX-D933S AND VSX-53 ONLY
*3 : VSX-D603S, VSX-D613S AND VSX-D633S ONLY

- This diagram is viewed from the mounted parts side.


FL U-COM ASSY (AWZ5434:VSX-D903S AND VSX-D933S)
(AWZ5438:VSX-53)
(AWZ5605:VSX-D703S)
(AWZ5436:VSX-D603S,VSX-D613S AND VSX-D633S)
V701 AAV1196-A
DIODES
Other diodes (not noted) are HSS104-02
CONNECTION ASSY CN114(→ SCH-5)
CN1 AKP1100-A
D.GND
ST+5V
FM STEREO
TUNED
T.DT
T.CLK
T.CE
T.MUTE
FAN WATT
CLK
DSP-CE
DT
ST1 out
ST2 out
M66320 LE
OSD.CS
OSD.CLK
OSD.DT
BLUE
SR MUTE
MR in
SR out
SR in
RMC
A.MUTE
Q712,Q713: MR MUTE
EXCEPT AWZ5434
AWZ5436 ONLY
AWZ5434 AND AWZ5438 ONLY
IC701
AWZ5436 AWZ5438 AWZ5605 PDG117B
AWZ5434 PDG118A
U-COM
MR in
SR in
GUI-EN
GUI-RESET
BUCK UP
P.RY
GUI-CS /OSD.CE
GUI-CLK /OSD.CLK
GUI-DT OUT /OSD.DT
GUI-DT in /BLUE
CLK
DSP-CE
DT
SR out
KEY SCAN1
KEY SCAN2
KEY SCAN3
JOG1 in
JOG2 in
ST1 out
ST2 out
M66320 LE
VL DC
FAN TEMP
GUI MUKAI
WAKE UP
FM STEREO
MR-RY
C.R-RY
SP.B-RY
SP.A-RY
5V
-VF
GRIT12
GRIT11
GRIT10
GRIT9
GRIT8
GRIT7
GRIT6
GRIT5
GRIT4
GRIT3
GRIT2
GRIT1
SEG15
SEG14
SEG13
SEG12
SEG11/KEY11
SEG10/KEY10
SEG9/KEY9
SEG8/KEY8
SEG7/KEY7
SEG6/KEY6
SEG5/KEY5
SEG4/KEY4
SEG3/KEY3
SEG2/KEY2
SEG1/KEY1
DIRECT ON/OFF
G.EDIT
FAN ON/OFF
FAN WATT
TUNED
T.DT
T.CLK
T.CE
RESET
D.GND
T.MUTE
SR MUTE
VH/VL
VL.UP
VL.DOWN
AWZ5434 ONLY
D764 HSS104
VSX-D903S AND VSX-D933S:MULTI JOG
EXCEPT VSX-D903S AND VSX-D933S:TUNER JOG
MUTING S.BASS RETURN SELECT ENTER T.MEM MPX FM/AM D.3CH SFC D.P.L
P.KEY A.MEM ASC1 ASC2 SP.A SP.B RECSEL G.EDIT/DISP MR&S VCR1
VCR2 VIDEO TV/SAT LD TAPE1 TAPE2 PHONO TUNER CD DIRECT
AWZ5434 ONLY
J36 AKT1024
GND
-24V
REC ASSY CN36(→ SCH-9)
AWZ5434 ONLY
Q704: LED ASSY
Q711: BUFFER
G.EDIT (OSD SUB ROOM)
DIRECT
Q707,Q708: LED DRIVE
STBY
MR&S
Q710: LED DRIVE
Q706: LED DRIVE
AWZ5434 AND AWZ5438 ONLY
Q705: INVERTER
Q702,J703: REMOTE-SIGNAL BUFFER
Q701:RESET
S710 RESET
X702 AXX1023
L701 LAU220K-TP
CN20 AKP-106-A
12V
D.GND
5V
STBY 5V
-VF
FAN TEMP
MR.-RY
C.R.-RY
SP.B-RY
SP.A-RY
VH/VL
P.-RY
PROT.-RY
WP
FL1
FL2
FAN ON/OFF
POWER SUPPLY ASSY CN20(→ SCH-10)
J31 AKT1023
BUCK UP
GUI MUKAI
GUI-EN
GUI-CS
GUI-CLK
GUI-DT out
GUI-DT in
GUI-RESET
VOL DC
AWZ5434 ONLY
GUI ASSY CN31(→ SCH-4)
J16 AKT1012
A.MUTE
VL.DC
VL.LED
VL.UP
VL.DOWN
VOL ASSY CN16(→ SCH-6)

	S715	S718	S721	S724	S727
VSX-D903S VSX-D933S	SP.A	SP.B	RECSEL	G.EDIT /DISP	MR&S
VSX-D703S	SP.A	SP.B			
VSX-D603S VSX-D613S VSX-D633S				SP.A	SP.B
VSX-53	SP.A	SP.B	RECSEL	OSD SUB	MR&S

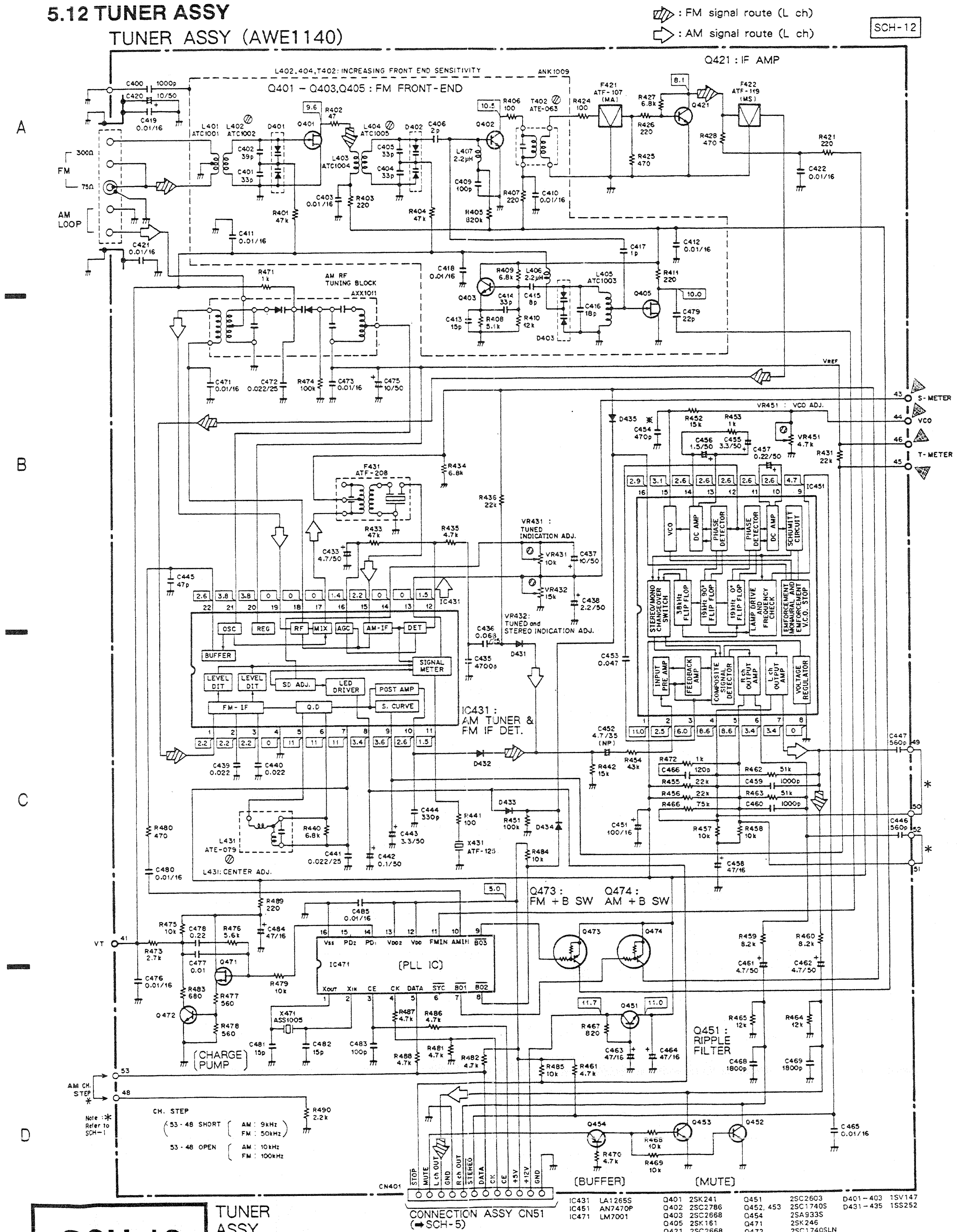
	R712
AWZ5438	1k
EXCEPT AWZ5438	10k

SCH-11 FL U-COM ASSY

FL U-COM ASSY **SCH-11**

5.12 TUNER ASSY

TUNER ASSY (AWE1140)


: FM signal route (L ch)
: AM signal route (L ch)
SCH-12
Q421 : IF AMP
L402, 404, T402 : INCREASING FRONT END SENSITIVITY
ANK1009
Q401 – Q403, Q405 : FM FRONT-END
FM
300Ω
75Ω
AM LOOP
AM RF TUNING BLOCK
AXX1011
S-METER
VCO
T-METER
VR451 : VCO ADJ.
VR431 : TUNED INDICATION ADJ.
VR432 : TUNED and STEREO INDICATION ADJ.
IC431 : AM TUNER & FM IF DET.
IC451
OSC
REG
RF
MIX
AGC
AM-IF
DET
BUFFER
SIGNAL METER
LEVEL DIT
SD ADJ.
LED DRIVER
POST AMP
FM-IF
Q.D
S. CURVE
VCO
DC AMP
PHASE DETECTOR
SCHMITT CIRCUIT
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
L431 : CENTER ADJ.
Q473 : FM +B SW
Q474 : AM +B SW
IC471
(PLL IC)
(CHARGE PUMP)
Q451 : RIPPLE FILTER
VT
AM CH STEP
CH. STEP
53 - 48 SHORT (AM : 9kHz, FM : 50kHz)
53 - 48 OPEN (AM : 10kHz, FM : 100kHz)
Note : * Refer to SCH-1
(BUFFER)
(MUTE)
CN401
STOP
MUTE
L ch OUT
GND
R ch OUT
STEREO
DATA
CK
CE
+5V
+12V
GND
CONNECTION ASSY CN51 (➡SCH-5)

IC431 LA1265S
IC451 AN7470P
IC471 LM7001

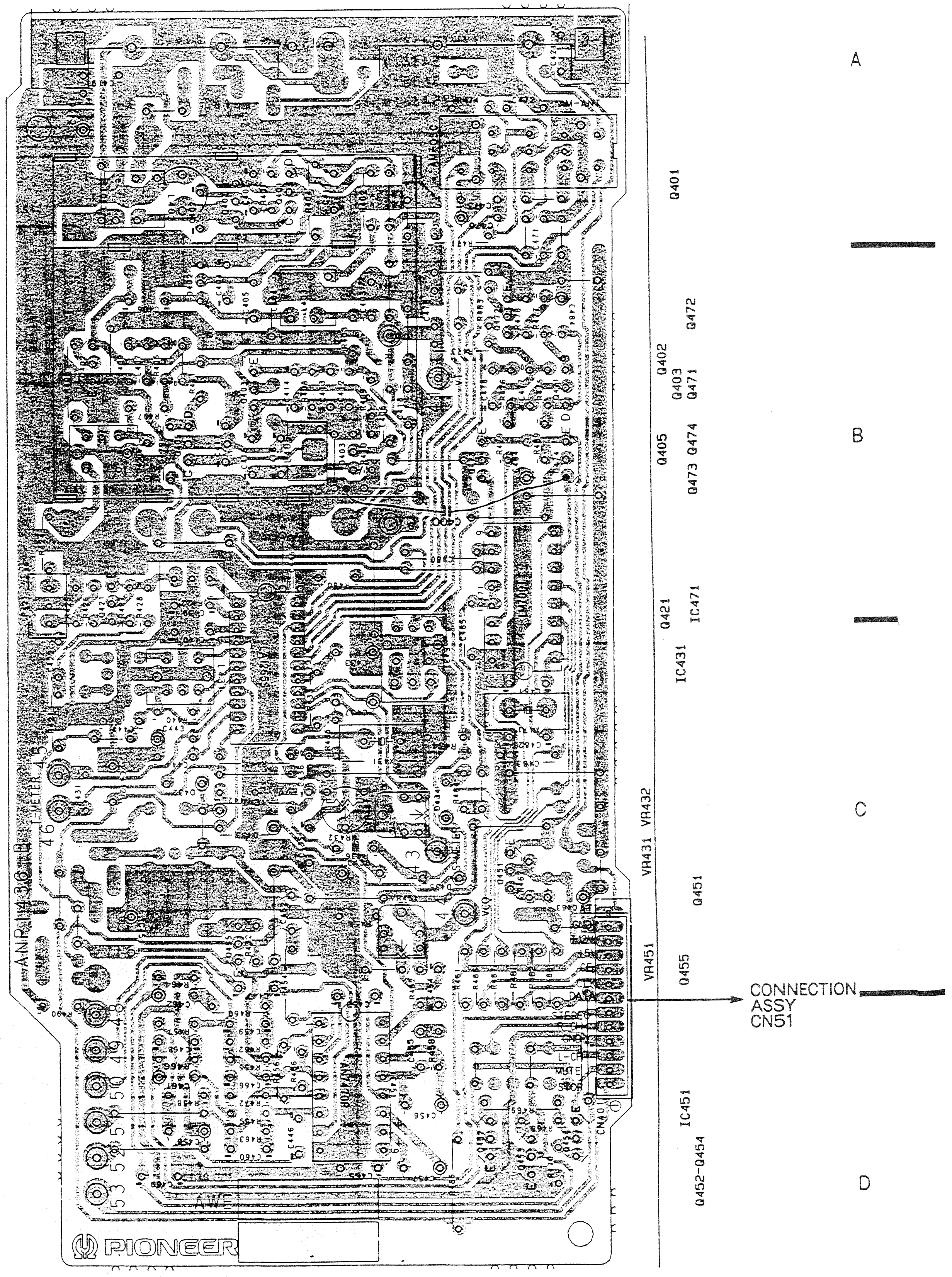
Q401 2SK241
Q402 2SC2786
Q403 2SC2668
Q405 2SK161
Q421 2SC2668

Q451 2SC2603
Q452, 453 2SC1740S
Q454 2SA933S
Q471 2SK246
Q472 2SC1740SLN
Q473, 474 RN2201

D401 – 403 1SV147
D431 – 435 1SS252

SCH-12 TUNER ASSY

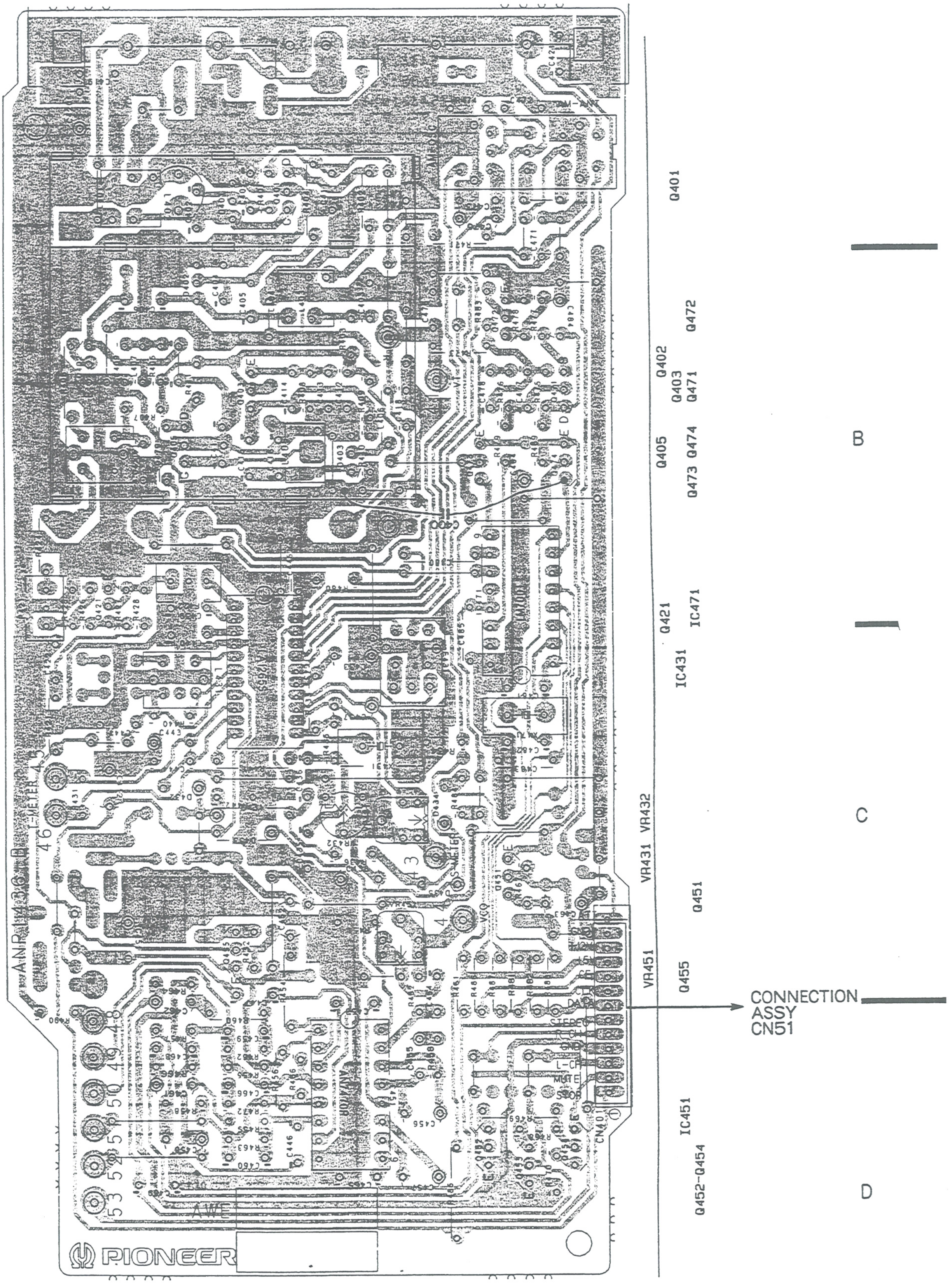
TUNER ASSY


Q401
Q472
Q402
Q403
Q471
Q405
Q474
Q473
Q421
IC471
IC431
VR431 VR432
Q451
VR451
Q455
CONNECTION ASSY CN51
IC451
Q452–Q454
PIONEER

● This diagram is viewed from the mounted parts side.

PCB-11

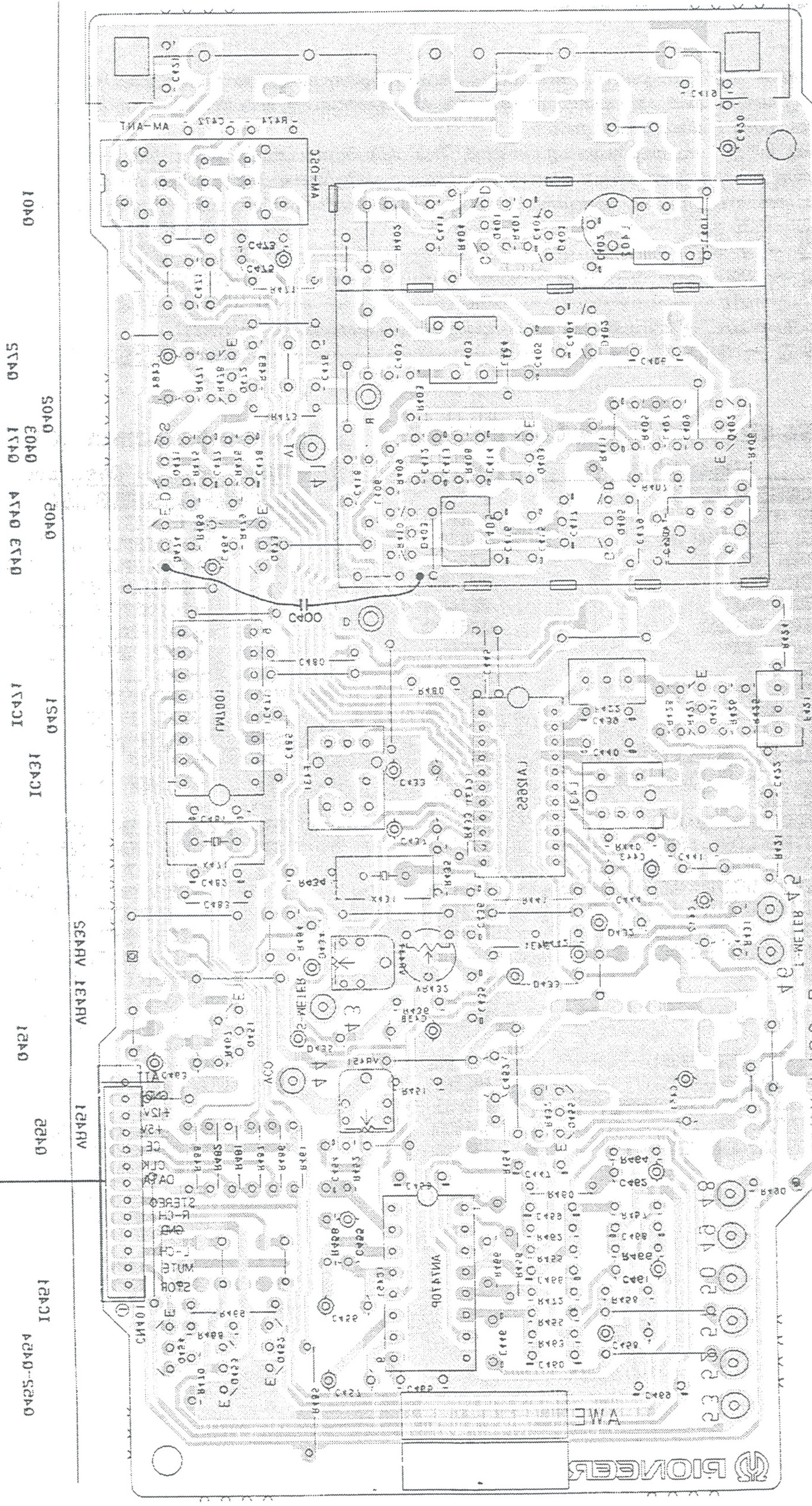
TUNER ASSY


Q401
Q472
Q402
Q403
Q471
Q405
Q474
Q473
Q421
IC471
IC431
VR431
VR432
Q451
VR451
Q455
IC451
Q452-Q454
B
C
D
CONNECTION ASSY CN51
F-METER
S-METER
VCO
DATA
STEREO
GND
MUTE
CN401
AWE
PIONEER

- This diagram is viewed from the mounted parts side.

TUNER ASSY

PCB-11


1
2
3
A
B
C
D
C400
CONNECTION
ASSY
CN51

● This diagram is viewed from the foil side.

6. PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47×10^3 → 473 .... RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 .... RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 .... RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

• FOR VSX-D703S/KU AND VSX-D603S/KU

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY	AWK1794
		├POWER AMP ASSY	AWZ5402
		├PRIM ASSY	AWZ5405
NSP		├TRANS ASSY	AWZ5406
NSP		├FRONT SP ASSY	AWZ5413
NSP		├R. C. SP ASSY	AWZ5414
		├REG ASSY	AWZ5415
		├POWER SUPPLY ASSY	AWZ5437
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D703S)	AWK1797
NSP		SMALL SIGNAL ASSY(VSX-D603S)	AWK1799
		├VOL ASSY	AWZ5421
		├AUDIO FUNCTION ASSY	AWZ5422
		├A/V FUNCTION ASSY(VSX-D703S)	AWZ5423
		├A/V FUNCTION ASSY(VSX-D603S)	AWZ5429
		├VIDEO FUNCTION ASSY(VSX-D703S)	AWZ5424
		├VIDEO FUNCTION ASSY(VSX-D603S)	AWZ5430
		├CONNECTION ASSY(VSX-D703S)	AWZ5425
		├CONNECTION ASSY(VSX-D603S)	AWZ5428
		├TONE ASSY	AWZ5426
		├SR ASSY	AWZ5433
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D703S)	AWK1802
NSP		FRONT ASSY(VSX-D603S)	AWK1803
NSP		├F. VIDEO ASSY(VSX-D703S ONLY)	AWZ5435
		├FL U-COM ASSY(VSX-D703S)	AWZ5605
		└FL U-COM ASSY(VSX-D603S)	AWZ5436
		PROLOGIC•SFC MODULE	AXQ1024

• FOR VSX-D903S/KU AND VSX-53/KU/CA

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY(VSX-D903S)	AWK1789
NSP		POWER SUPPLY AMP ASSY(VSX-53)	AWK1839
		├POWER AMP ASSY	AWZ5402
		├REG ASSY(VSX-D903S)	AWZ5403
		├REG ASSY(VSX-53)	AWZ5621
		├POWER SUPPLY ASSY	AWZ5404
		├PRIM ASSY	AWZ5405
NSP		├TRANS ASSY	AWZ5406
NSP		├FRONT SP ASSY	AWZ5407
NSP		├R. C. SP ASSY	AWZ5408
NSP		├SW ASSY	AWZ5412
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D903S)	AWK1796
NSP		SMALL SIGNAL ASSY(VSX-53)	AWK1800
		├AUDIO FUNCTION ASSY(VSX-D903S)	AWZ5416
		├AUDIO FUNCTION ASSY(VSX-53)	AWZ5728
		├A/V FUNCTION ASSY	AWZ5417
		├VIDEO FUNCTION ASSY(VSX-D903S)	AWZ5418
		├VIDEO FUNCTION ASSY(VSX-53)	AWZ5431
		├CONNECTION ASSY(VSX-D903S)	AWZ5419
		├CONNECTION ASSY(VSX-53)	AWZ5432
		├TONE ASSY(VSX-D903S)	AWZ5420
		├TONE ASSY(VSX-53)	AWZ5426
		├VOL ASSY	AWZ5421
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D903S)	AWK1801
NSP		FRONT ASSY(VSX-53)	AWK1804
		├FL U-COM ASSY(VSX-D903S)	AWZ5434
		├FL U-COM ASSY(VSX-53)	AWZ5438
NSP		└F. VIDEO ASSY	AWZ5435
NSP		SR & S. TERMINAL ASSY(VSX-D903S)	AWQ1024
NSP		SR & S. TERMINAL ASSY(VSX-53)	AWQ1026
NSP		GUI ASSY(VSX-D903S ONLY)	AWQ1025
		PROLOGIC•SFC MODULE	AXQ1029

TUNER ASSY (AWE1140)

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC451	AN7470P
	IC431	LA1265S
	IC471	LM7001
	Q454	2SA933S
	Q452, Q453	2SC1740S
	Q472	2SC1740SLN
	Q451	2SC2603
	Q403, Q421	2SC2668
	Q402	2SC2786
	Q405	2SK161
	Q401	2SK241
	Q471	2SK246
	Q473, Q474	RN2201
	D431-D435	1SS252
	D401-D403	1SV147

COILS, FILTERS AND TRANSFORMER

Mark	No. Description	Part No.
	L401	ATC1001
	L402	ATC1002
	L405	ATC1003
	L403	ATC1004
	L404	ATC1005
	T402	ATE-063
	L431	ATE-079
	F421	ATF-107
	F422	ATF-119
	F431	ATF-208
	L406, L407	LAU2R2M

CAPACITORS

Mark	No. Description	Part No.
	C454 (470pF, 50V)	ACE1039
	C466	CCCSL121J50
	C417	CCDCH010C50
	C406	CCDCH020C50
	C415	CCDCH080D50
	C413, C481, C482	CCDCH150J50
	C414	CCDCH330J50
	C401, C404, C405	CCDRH330J50
	C402	CCDRH390J50
	C416	CCDTH180J50
	C479	CCPUSL220J50
	C445	CCPUSL470J50
	C452	CEANP4R7M35
	C442	CEAS0R1M50
	C420, C437, C475	CEAS100M50
	C451	CEAS101M16
	C456	CEAS1R5M50
	C438	CEAS2R2M50
	C443, C455	CEAS3R3M50
	C458, C463, C464, C484	CEAS470M16
	C433, C461, C462	CEAS4R7M50
	C457	CEASR22M50
	C478	CFTXA224J50
	C477	CKCYF103Z50
	C439, C440	CKCYF223Z50
	C435	CKCYF472Z50
	C453	CKCYF473Z50
	C436	CKCYX683M25
	C400	CKDYF102Z50
	C409, C483	CKPUYB101K50
	C444	CKPUYB331K50
	C441, C472	CKPUYF223Z25
	C403, C410-C412, C418, C419	CKPUYY103N16
	C421, C422, C465, C471, C473	CKPUYY103N16
	C476, C480, C485	CKPUYY103N16
	C459, C460	CQMA102J50
	C468, C469	CQMA182J50
	C446, C447	CQMA561K50

RESISTORS

Mark	No. Description	Part No.
	VR451 (4.7kΩ)	ACP1042
	VR431 (10kΩ)	ACP1043
	VR432	VRTS6VS153
	Other Resistors	RD1/8PM☐☐☐J

OTHERS

Mark	No. Description	Part No.
	ANTENNA TERMINAL 4-P	AKA1014
	X471 CRYSTAL RESONATOR (7.200MHz)	ASS1005
	X431 CERAMIC FILTER	ATF-125
	AM RF TUNING BLOCK	AXX1011
	CN401 12P SOCKET	KP200IA12L

POWER AMP ASSY (AWZ5402)

SEMICONDUCTORS

Mark	No. Description	Part No.
	Q107, Q108, Q164	2SA1145
	Q103, Q104, Q162, Q201	2SA1240
	Q115, Q116, Q168, Q205	2SA1837
	Q105, Q106, Q163	2SA970
	Q101, Q102, Q161	2SC1845
	Q117, Q118, Q169, Q206	2SC2240
	Q111, Q112, Q166, Q203	2SC2603
	Q109, Q110, Q165, Q202	2SC2705
	Q113, Q114, Q167, Q204	2SC4793
	D101-D108, D111-D114	HSS104-02
	D117-D122, D161-D164	HSS104-02
	D166, D167, D169-D171	HSS104-02
	D204-D206	HSS104-02
	D201	RD10ESB
	D202, D203	RD4.3ESB
	D109, D110, D115, D116, D165	RD8.2ESB2
	D168	RD8.2ESB2

COILS

Mark	No. Description	Part No.
	L101, L102, L161, L201 (0.7μH)	ATH1004

CAPACITORS

Mark	No. Description	Part No.
	C117, C118, C169	CCCSL050C500
	C105-C108, C163, C164	CCCSL101J50
	C212, C213	CCCSL101K500
	C113, C114	CCCSL150K500
	C121-C124, C171, C172	CCCSL151K500
	C167, C208	CCCSL220K500
	C204, C205	CCCSL470J50
	C129, C130, C175	CEANP010M50
	C216	CEANP2R2M50
	C201, C202	CEAS2R2M50

Mark	No.	Description	Part No.
	C111, C112, C166, C207		CEAS470M16
	C210		CEAS470M25
	C161		CEAS4R7M50
	C125, C126, C173, C214		CFTXA473J50
	C119, C120, C170, C211		CKCYB102K50
	C162		CKCYB122K50
	C203		CKCYB222K50
	C103, C104		CKCYB471K50
	C109, C110, C165, C206		CQMA392J50
RESISTORS			
	R145, R146, R183, R222 (0.33Ω, 5W)		ACN1087
	R115, R116, R168, R207		RD1/4PM152J
	R117, R118, R169, R208		RD1/4PM473J
	R147, R148, R151, R152, R184		RD1/4PMF100J
	R186, R223, R229		RD1/4PMF100J
	R129-R136, R175-R178		RD1/4PMF101J
	R214-R217		RD1/4PMF101J
	R153-R156, R187, R188		RD1/4PMF222J
	R225, R226		RD1/4PMF222J
	R139-R142, R180, R181		RD1/4PMF4R7J
	R220, R221		RD1/4PMF4R7J
	R121, R122, R171		RD1/4PMF680J
	R111-R114, R166, R167		RFA1/4PS391J
	R127, R128, R174, R210		RFA1/4PS470J
	R137, R138, R143, R144, R179		RFA1/4PS4R7J
	R182, R218, R219		RFA1/4PS4R7J
	Other Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(3P)	AKT1076
		CABLE HOLDER(8P)	AKT1081
		CABLE HOLDER(9P)	AKT1082
	CN17, CN18	7P PLUG	KM200IB7

PRIM ASSY (AWZ5405)

SEMICONDUCTORS			
	IC51		NJM78M56FAS
	Q51		XDC143ES
	D51		HSS104-02
	D54		HZS6A1L
	D53		S1WB20
	D52		S5566
COIL			
⚠	L51		ATF1006
TRANSFORMER			
⚠	T51		ATT1011
RELAY			
⚠	RY51		ASR1036
CAPACITORS			
⚠	C51, C52 (0.01μ, AC400V)		ACG1002
	C53		CEAS102M25
	C55		CEAS470M16
	C54		CKCYB103K50

Mark	No.	Description	Part No.
RESISTORS			
⚠	R52 (2.2MΩ, 1/2W)		ACN-208
⚠	R53		RD1/4PMF332J
⚠	R51		RD1/4PMF4R7J
	Other Resistors		RD1/8PM□□□J
OTHERS			
		AC OUTLET(3P)	AKP1053
	CN22	CONNECTOR(4P)	KPC4

TRANS ASSY (AWZ5406)

RESISTORS			
⚠	R379, R380		RFA1/4PL4R7J
OTHERS			
		CABLE HOLDER(8P)	AKT1081

FRONT SP ASSY (AWZ5413)

SEMICONDUCTORS			
	Q281, Q282		XDC143ES
	D281, D282		HSS104-02
RELAYS			
	RY281, RY282		ASR-112
RESISTORS			
	R281, R282		RS1PMF821J
OTHERS			
	CN8004	SPEAKER TERMINAL 8-P	AKE1048
	CN26	CONNECTOR(4P)	KPC4
	CN25	CONNECTOR(8P)	KPC8
	CN27	CONNECTOR(4P)	KPE4
	CN24	CONNECTOR(6P)	KPE6

R. C. SP ASSY (AWZ5414)

SEMICONDUCTORS			
	Q271		XDC143ES
	D271		HSS104-02
RELAY			
	RY271		ASR-112
RESISTORS			
	R273		RS1PMF821J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	CN8007	PIN JACK 1-P	AKB1139
		SPEAKER TERMINAL 4-P	AKE-109
	CN8016	SPEAKER TERMINAL 2-P	AKE1041
		CABLE HOLDER(4P)	AKT1077

REG ASSY (AWZ5415)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC251		NJM78M12FAS
	IC252		NJM79M12FA
	Q256, Q257, Q261		2SA1048
	Q258		2SC2458
	Q251		2SC4793
	Q253, Q260		2SD438
	Q254, Q255, Q259		XDA124ES
	D257		HZS22-3L
	D260		HZS6B2L
	D258, D261		RD13ESB3
	D251-D254		S5566

CAPACITORS

Mark	No.	Description	Part No.
	C251	(0.01μ, AC250V)	ACG1005
	C259, C260, C262		CEAS101M25
	C261		CEAS102M16
	C253		CEAS102M35
	C252		CEAS222M35
	C255, C266		CEAS470M25
	C256-C258		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R256		RD1/4PMF122J
	R251		RFA1/4PS470J
	R286		RS1PMF100J
	R261		RS1PMF121J
	R253		RS1PMF220J
	R276		RS2LMF151J
	R254, R255, R283		RS2LMF180J
	R252		RT5PD180K
		Other Resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		SCREW	ABA-298
	CN15, CN19	CONNECTOR(10P)	KPC10
	CN8018	CONNECTOR(4P)	KPC4
	CN201	CONNECTOR(3P)	KPE3

POWER SUPPLY ASSY (AWZ5437)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q366		2SA1515
	Q362, Q364, Q365, Q368		2SC2458
	Q367		XDA143ES
	Q363		XDC124ES
	Q361		XDC143ES
	D362		D3SBA20
	D351, D352		D5SB20F
	D361, D366, D369		HSS104-02
	D367		HZS5BLL
	D365		RD6.2ESB
	D363, D364		S5566

RELAYS

Mark	No.	Description	Part No.
	RY361, RY362		ASR1027
	RY363		ASR1035

CAPACITORS

Mark	No.	Description	Part No.
	C351, C352, C361	(0.01μ, AC250V)	ACG1005
	C362, C363	(5600μ, 50V)	ACH1145
	C353	(12000μ, 80V)	ACH1263
	C354	(12000μ, 80V)	ACH1264
	C367		CEAS101M35
	C364		CEAS220M50
	C365		CEAS221M16
	C366		CEAS330M25
	C368		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R362		RD1/2PMF102J
	R366		RD1/4PMF2R2J
	R368		RD1/4PMF822J
	R361		RS1PMF471J
	R372		RS1PMF821J
	R373, R374		RS2LMF331J
		Other Resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		HEADPHONE JACK	AKN1002
	CN20	18P SOCKET	AKP1102
		CABLE HOLDER(3P)	AKT1076
		CABLE HOLDER(4P)	AKT1077
		CABLE HOLDER(9P)	AKT1082
		CABLE HOLDER(10P)	AKT1083
	CN23	JUMPER CONNECTOR(8P)	KPC8

R. C. MUTE ASSY (AWZ5707)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q575, Q576		2SC2878

RESISTORS

Mark	No.	Description	Part No.
		All Resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		CABLE HOLDER (4P)	AKT1077
	CN118	7P SOCKET	KP200IB7L

VOL ASSY (AWZ5421)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC5571		M5220P
	IC5573		TA8409S
	IC5572		XRA4558N-P
	Q5591		2SA1115
	Q5573		XDC124ES
	D5571-D5574		HSS104-02
	D5578		RD3.3ESB2
	D5579		RD5.1ESB1
	D5575, D5576		RD5.1ESB2

CAPACITORS

	C5573, C5574		CCCCH330J50
	C5579		CEANP101M10
	C5581-C5583		CEAS100M50
	C5580		CEAS101M16
	C5571, C5572, C5575, C5576		CEAS4R7M50
	C5577, C5578		CEASR47M50

RESISTORS

	R5593		RD1/2PM470J
	R5596, R5597		RD1/4PM221J
	R5595		RD1/4PM561J
	R5592		RD1/4PM621J
	VR5571		ACX1095
	Other Resistors		RD1/8PM□□□J

OTHERS

		CABLE HOLDER(4P)	AKT1077
	CN156	15P SOCKET	KP200IB15L
	CN16	CONNECTOR(5P)	KPE5

AUDIO FUNCTION ASSY (AWZ5422)

SEMICONDUCTORS

	IC404		M5220P
	IC401		TC9164N
	IC403		XRA4558-P

CAPACITORS

	C447		CCSQCH102J50
	C419, C420		CCSQCH221J50
	C417, C418		CCSQCH681J50
	C423, C424		CCSQSL101J50
	C415, C416		CEAS100M50
	C431, C432		CEAS101M16
	C433, C434, C439, C440		CEAS2R2M50
	C421, C422		CEAS470M25
	C445, C446		CEAS4R7M50
	C435, C436		CKSQYB103K50
	C1400, C429, C430, C441, C444		CKSQYF103Z50
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(6P)	AKB1121
	CN8207	PIN JACK(6P)	AKB1129
		CABLE HOLDER(11P)	AKT1084
	CN152	13P SOCKET	KP200IB13L

Mark	No.	Description	Part No.

A/V FUNCTION ASSY (AWZ5423 and AWZ5429)

SEMICONDUCTOR

	IC451		TC9163N

CAPACITORS

	C487		CCSQCH102J50
	C481, C482		CEAS470M25
	C475, C476		CKSQYB103K50
	C1450, C483, C484		CKSQYF103Z50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(4P) (AWZ5423 ONLY)	AKB1101
		PIN JACK(4P)	AKB1124
	CN2	PLUG 3-P (AWZ5423 ONLY)	KM250MA3L
	CN153	10P SOCKET	KP200IB10L
	CN11	L-CONNECTOR(11P)	KPD11L
	CN98	PIN JACK(6P)(AWZ5429 ONLY)	AKB1129

VIDEO FUNCTION ASSY (AWZ5424)

SEMICONDUCTORS

	IC502		LA7951
	IC507		M50554-003SP
	IC1502		M66320FP
	IC506		MM1067XD
	IC501		NJM2233BLA
	IC1503		UPC78L05J
	Q504		2SA1048
	Q505-Q507		2SA1115
	Q508		2SC2412K
	Q503		2SC2458
	Q501, Q502, Q510		XDC124ES
	D505, D506		1SS352
	D501, D502		HSS104-02

COILS

	L506		LAU150J
	L507, L508		LAU270J
	L501, L502, L509-L511		LAU680J

CAPACITORS

	TC501		ACM-020
	C558, C559, C562		CCSQCH050C50
	C540, C546		CCSQCH101J50
	C1526		CCSQCH102J50
	C542, C544		CCSQCH150J50
	C549, C551		CCSQCH220J50
	C535		CCSQCH221J50
	C543		CCSQCH330J50
	C1529		CCSQCH331J50
	C534		CCSQCH471J50
	C532		CCSQCH561J50
	C526, C530, C531		CEAS010M50
	C527, C547		CEAS100M50
	C1506		CEAS101M10
	C507		CEAS101M16

Mark	No.	Description	Part No.
	C537		CEAS2R2M50
	C501-C506, C509, C511, C538		CEAS470M25
	C552, C553, C557		CEAS470M25
	C563		CEAS471M10
	C560, C561		CEAS471M6
	C536		CEASR47M50
	C1524		CEJA100M16
	C1505, C545		CKSQYB102K50
	C533		CKSQYB332K50
	C1507, C1521, C508, C510, C528		CKSQYF103Z50
	C539, C548, C550, C554-C556		CKSQYF103Z50
	C541		CKSQYF104Z50
	C529		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R541, R542		RD1/2PM331J
	R548		RD1/2PM271J
	R1504		RD1/4PM680J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	X501	CERAMIC RESONATOR(503kHz)	ASS1112
	CN3	PLUG 3-P	KM250MA3L
	CN154	16P SOCKET	KP200IB16L
	CN199	9P SOCKET	KP200IB9L

OTHERS

Mark	No.	Description	Part No.
		PHONO JACK 2-P	AKB1134
	CN6, CN8111	3P RCA PINJACK	AKB1143
	CN154	12P SOCKET	KP200IB12L
	CN199	9P SOCKET	KP200IB9L

CONNECTION ASSY (AWZ5425 and AWZ5428)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D552		HSS104-02
	D551		RD5.1ESB2

CAPACITORS

Mark	No.	Description	Part No.
	C2551		CCSQCH102J50
	C1551		CEAS101M16
	C1552		CEAS470M25

RESISTORS

Mark	No.	Description	Part No.
	R552		RD1/2PM181J

OTHERS

Mark	No.	Description	Part No.
	CN114	SOCKET(27P)	AKP1099
	CN51	12P PLUG	KM200IB12
	CN52	13P PLUG	KM200IB13
	CN54	16P PLUG (AWZ5425)	KM200IB16
	CN54	12P PLUG (AWZ5428)	KM200IB12
	CN99	9P PLUG	KM200IB9
	CN53	10P PLUG	KM200IB10

VIDEO FUNCTION ASSY (AWZ5430)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC502		LA7951
	IC1502		M66320FP
	IC501		NJM2233BLA
	IC1503		UPC78L05J
	Q505, Q506		2SA1115
	Q508		2SC2412K

COILS

Mark	No.	Description	Part No.
	L501, L502, L509, L510		LAU680J

CAPACITORS

Mark	No.	Description	Part No.
	C558, C559		CCSQCH050C50
	C1526		CCSQCH102J50
	C1506		CEAS101M10
	C507		CEAS101M16
	C501-C506, C509, C511		CEAS470M25
	C552, C553		CEAS470M25
	C563		CEAS471M10
	C560, C561		CEAS471M6
	C1505		CKSQYB102K50
	C1507, C1521, C508, C510		CKSQYF103Z50
	C554, C555		CKSQYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R541, R542		RD1/2PM331J
	R1504		RD1/4PM680J
	Other Resistors		RS1/10S□□□J

TONE ASSY (AWZ5426)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC573		M5220P
	IC571		TC9162N
	IC572, IC574		XRA4558N-P
	Q577		2SA1115
	Q571-Q574		2SC2458
	D571-D574, D577-D580		HSS104-02
	D575, D576		RD5.1ESB2

CAPACITORS

Mark	No.	Description	Part No.
	C591, C592		CCSQCH151J50
	C573, C574		CEAS010M50
	C585, C586, C589, C590		CEAS100M50
	C599, C600		CEAS100M50
	C571, C572, C587, C588		CEAS4R7M50
	C593, C594		CEAS4R7M50
	C577, C578, C595, C596		CEASR47M50
	C575, C576		CFTXA154J50
	C579, C580		CFTXA473J50
	C605		CKDYF103Z50
	C583, C584		CKPUYB151K50
	C597, C598		CKSQYB103K50
	C601		CKSQYB471K50
	C581, C582		CQMA153J50

Mark	No.	Description	Part No.
RESISTORS			
	R627, R628		RD1/4PM221J
	R1597		RS1/10S000J
	R622-R624		RS1/10S102J
	R575, R576, R629, R630		RS1/10S104J
	R605, R606		RS1/10S223J
	R601, R602		RS1/10S473J
	R603, R604		RS1/10S562J
	VR573 (10kΩ×2)		ACS1029
	VR571, VR572 (30kΩ×2)		ACS1115
	Other Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(10P)	AKT1083
	CN55, CN56	15P PLUG	KM200IB15
	CN13	CONNECTOR(15P)	KPE15

SR ASSY (AWZ5433)

SEMICONDUCTORS			
	Q656, Q657		2SA1048
	Q655		2SC2458
	D651-D653, D655-D657		HSS104-02
	D654		RD5.1ESB
RESISTORS			
	All Resistors		RS1/10S□□□J
OTHERS			
	CN651	2P MINI JACK	AKN1006
		MINI JACK	AKN1020
	CN12	CONNECTOR(9P)	KPE9

F. MUTE ASSY (AWZ5708)

SEMICONDUCTORS			
	Q5571, Q5572		2SC2878
CAPACITORS			
	C101, C102		CEAS4R7M50
RESISTORS			
	All Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(4P)	AKT1077
	CN117	7P SOCKET	KP200IB7L

F. VIDEO ASSY (AWZ5435)

CAPACITOR			
	C710		CKCYX104M16
RESISTORS			
	All Resistors		RD1/8PM□□□J
OTHERS			
		PIN JACK(1P)	AKB1082
	CN1	PLUG 5-P	KM250MA5

FL U-COM ASSY (AWZ5605 and AWZ5436)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC701		PDG117B
	Q702, Q703, Q705-Q707		2SC2458
	Q701		XDC124ES
	D735, D736		AEL1100
	D734		AEL1151
	D701-D710, D715, D716		HSS104-02
	D721, D722, D727, D728, D733		HSS104-02
	D740-D743, D761, D763		HSS104-02
COIL			
	L701		LAU220K
SWITCHES			
	S701-S714, S716, S717, S719, S720		ASG1034
	S722, S723, S725, S726, S728-S732		ASG1034
	S715, S718 (AWZ5605 ONLY)		ASG1034
	S724, S727 (AWZ5436 ONLY)		ASG1034
	S733		ASX1015
CAPACITORS			
	C707 (47μ, 5.5V)		ACH1246
	C704, C706		CEAS010M50
	C702		CEAS101M10
	C708		CEAS470M50
	C701		CEJA010M50
	C705, C709		CKCYX473M25
	C703		CKPUYF473Z16
RESISTORS			
	R743		RD1/4PM221J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	V701	FL TUBE	AAV1196
	CN14	SOCKET(27P)	AKP1100
	CN20	18P SOCKET	AKP1106
	X701	CERAMIC RESONATOR (8.00MHz)	ASS1015
		REMOTE RECEIVER UNIT	AXX1023

PROLOGIC • SFC MODULE (AXQ1024)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2001		LA2785
	IC2007		LC32464M-80
	IC2008, IC2018		LC78835M
	IC2003-IC2006, IC2010, IC2011, IC2013		NJM4558M-D
	IC2017		NJM4558M-D
	IC2019		NJM78M05FAS
	IC2002		NJM78M09FAS
	IC2012		PDC017C
	IC2015		PDC018A
	IC2014		TC9162N
	Q2001		2SA1162
	Q2002		DTC124EK
	D2001, D2002, D2004		1SS226

COILS

Mark	No.	Description	Part No.
	L2004, L2006, L2010, L2014		ATX1008
	L2013, L2015		LCTAR22J3225
	L2003, L2005		LTA102J
	L2011, L2012		LTA473J

CAPACITORS

Mark	No.	Description	Part No.
	C2168		CCSQCH040C50
	C2084, C2085		CCSQCH080D50
	C2036, C2108, C2113		CCSQCH101J50
	C2041, C2042		CCSQCH102J50
	C2164, C2167		CCSQCH150J50
	C2163		CCSQCH470J50
	C2043, C2044, C2080, C2081		CCSQCH471J50
	C2082, C2083		CCSQCH680J50
	C2018, C2021		CEANL3R3M50
	C2014, C2016, C2023, C2025		CEANL4R7M50
	C2122, C2126		CEANP101M16
	C2072, C2073		CEAS010M50
	C2047, C2048, C2053, C2058, C2064		CEAS100M50
	C2102, C2104, C2106, C2130, C2135		CEAS100M50
	C2060, C2066, C2153		CEAS101M10
	C2105		CEAS220M16
	C2068, C2069		CEAS220M25
	C2037, C2166		CEAS221M10
	C2003, C2008, C2123, C2127		CEAS221M16
	C2051, C2052, C2054, C2067, C2103		CEAS2R2M50
	C2076, C2077		CEAS330M16
	C2039		CEAS331M16
	C2029, C2056, C2092		CEAS470M10
	C2112		CEAS470M25
	C2138		CEAS471M10
	C2004-C2007, C2009, C2010		CEJA100M16
	C2032-C2034		CEJA100M16
	C2013, C2015, C2024, C2026		CEJAR47M50
	C2011, C2012, C2027, C2028		CFTXA104J50
	C2019, C2020		CFTXA154J50
	C2030		CFTXA474J50
	C2017, C2022		CFTYA154J50
	C2070, C2071, C2097		CKSQYB102K50
	C2078, C2079, C2086, C2087		CKSQYB103K50
	C2090, C2091, C2111		CKSQYB103K50
	C2158, C2159, C2161, C2162		CKSQYB104K25
	C2140-C2142		CKSQYB182K50
	C2045, C2046, C2100		CKSQYB222K50
	C2101		CKSQYB471K50
	C2074, C2075, C2095, C2110, C2155		CKSQYB472K50
	C2055, C2057, C2089, C2093, C2165		CKSQYB473K25
	C2038, C2040, C2154		CKSQYB473K50
	C2031, C2059, C2061, C2062, C2065		CKSQYF104Z50
	C2096, C2107, C2109, C2129, C2134		CKSQYF104Z50
	C2136		CKSQYF104Z50
	C2001		CQMA223J50
	C2002		CQMA473J50
	C2035		CQMA681J50

RESISTORS

Mark	No.	Description	Part No.
	R2148		RD1/2PMFL4R7J
		Other Resistors	RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X2002	CERAMIC RESONATOR(4.19MHz)	ASS1018
	X2001	CRYSTAL RESONATOR(22.5792MHz)	ASS1114
	CN2001	15P SOCKET	KP200IB15L

REG ASSY (AWZ5403 and AWZ5621)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC251		NJM78M12FAS
	IC252		NJM79M12FA
	Q256, Q257, Q261		2SA1048
	Q258		2SC2458
	Q251		2SC4793
	Q252(AWZ5403 ONLY)		2SC4793
	Q253, Q260		2SD438
	Q254, Q255, Q259		XDA124ES
	D257		HZS22-3L
	D260		HZS6B2L
	D259(AWZ5403 ONLY)		HZS6C2L
	D258, D261		RD13ESB3
	D251-D254		S5566
	D255, D256(AWZ5403 ONLY)		S5566

CAPACITORS

Mark	No.	Description	Part No.
	C251	(0.01μ, AC250V)	ACG1005
	C259, C260, C262		CEAS101M25
	C265(AWZ5403 ONLY)		CEAS101M25
	C261		CEAS102M16
	C253		CEAS102M35
	C254(AWZ5403 ONLY)		CEAS102M35
	C252		CEAS222M35
	C255, C266		CEAS470M25
	C264(AWZ5403 ONLY)		CEAS471M10
	C256-C258		CKCYF103Z50
	C263(AWZ5403 ONLY)		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R259(AWZ5403 ONLY)		RD1/4PMF272J
	R256		RD1/4PMF751J
	R251		RFA1/4PS470J
	R286		RS1PMF100J
	R261		RS1PMF121J

Mark	No.	Description	Part No.
	R253		RS1PMF220J
	R276		RS2LMF151J
	R284(AWZ5621 ONLY)		RT5PD100K
	R252		RT5PD180K
	R257(AWZ5403 ONLY)		RT5PD470K
	Other Resistors		RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		SCREW(AWZ5403 ONLY)	ABA-298
	CN15, CN19	CONNECTOR(10P)	KPC10
	CN8018	CONNECTOR(4P)	KPC4
	CN201	CONNECTOR(3P)	KPE3
	CN36	CONNECTOR(3P) (AWZ5403 ONLY)	KPE3

POWER SUPPLY ASSY (AWZ5404)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q366		2SA1515
	Q362, Q364, Q365, Q368		2SC2458
	Q367		XDA143ES
	Q363		XDC124ES
	Q361		XDC143ES
	D362		D3SBA20
	D351, D352		D5SB20F
	D361, D366, D369		HSS104-02
	D367		HZS5BLL
	D365		RD6.2ESB
	D363, D364		S5566

RELAYS

Mark	No.	Description	Part No.
	RY361, RY362		ASR1027
	RY363		ASR1035

CAPACITORS

Mark	No.	Description	Part No.
	C351, C352, C361	(0.01μ, AC250V)	ACG1005
	C362, C363	(5600μ, 50V)	ACH1145
	C353	(12000μ, 80V)	ACH1263
	C354	(12000μ, 80V)	ACH1264
	C367		CEAS101M35
	C364		CEAS220M50
	C365		CEAS221M16
	C366		CEAS330M25
	C368		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R362		RD1/2PMF102J
	R366		RD1/4PMF2R2J
	R368		RD1/4PMF822J
	R361		RS1PMF471J
	R372		RS1PMF821J
	R373, R374		RS2LMF331J
	Other Resistors		RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		JACK	AKN1002
	CN20	18P SOCKET	AKP1102
		CABLE HOLDER(3P)	AKT1076
		CABLE HOLDER(4P)	AKT1077
		CABLE HOLDER(9P)	AKT1082
		CABLE HOLDER(10P)	AKT1083
		JUMPER CONNECTOR	KPC8

FRONT SP ASSY (AWZ5407)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q281, Q282		XDC143ES
	D281, D282		HSS104-02

SWITCH AND RELAYS

Mark	No.	Description	Part No.
	S281		AKX1033
	RY281, RY282		ASR-112

RESISTORS

Mark	No.	Description	Part No.
	R281, R282		RS1PMF821J

OTHERS

Mark	No.	Description	Part No.
		SPEAKER TERMINAL 8-P	AKE1011
	CN26	CONNECTOR(7P)	KPC7
	CN25	JUMPER CONNECTOR	KPC8
	CN27	CONNECTOR(4P)	KPE4
	CN24	CONNECTOR(6P)	KPE6

R. C. SP ASSY (AWZ5408)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q271, Q272		XDC143ES
	D271, D272		HSS104-02

RELAYS

Mark	No.	Description	Part No.
	RY271, RY272		ASR-112

RESISTORS

Mark	No.	Description	Part No.
	R273, R274		RS1PMF821J
	Other Resistors		RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8007	PIN JACK 1-P	AKB1139
		SPEAKER TERMINAL 8-P	AKE-111
		SPEAKER TERMINAL 4-P	AKE1055
		CABLE HOLDER(7P)	AKT1080

SW ASSY (AWZ5412)

SWITCH

Mark	No.	Description	Part No.
	S111		ASH1043

OTHERS

Mark	No.	Description	Part No.
	CN29	CONNECTOR(3P)	KPE3

AUDIO FUNCTION ASSY (AWZ5416 and AWZ5728)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC404		M5220P
	IC402		TC9163N
	IC401		TC9164N
	IC403		XRA4558-P

CAPACITORS

Mark	No.	Description	Part No.
	C447, C448		CCSQCH102J50
	C419, C420		CCSQCH221J50
	C417, C418		CCSQCH681J50
	C423, C424		CCSQSL101J50
	C415, C416		CEAS100M50
	C431, C432		CEAS101M16
	C433, C434, C439, C440		CEAS2R2M50
	C421, C422		CEAS470M25
	C445, C446		CEAS4R7M50
	C435-C438		CKSQYB103K50
	C1400, C429, C430, C441, C444		CKSQYF103Z50
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK(6P)	AKB1121
	CN8207	PIN JACK(6P)(AWZ5416 ONLY)	AKB1129
		PIN JACK(4P)(AWZ5728 ONLY)	AKB1101
		PIN JACK(2P)(AWZ5728 ONLY)	AKB1151
		CABLE HOLDER(11P)	AKT1084
	CN152	13P SOCKET	KP200IB13L

A/V FUNCTION ASSY (AWZ5417)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC452		TC9162N
	IC451		TC9163N
	IC453		XRA4558N-P

CAPACITORS

Mark	No.	Description	Part No.
	C487, C488		CCSQCH102J50
	C479, C480		CEAS2R2M50
	C481, C482		CEAS470M25
	C485, C486		CEAS4R7M50
	C475-C478		CKSQYB103K50
	C1450, C483, C484		CKSQYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
		PIN JACK(4P)	AKB1101
		PIN JACK(4P)	AKB1124
	CN2	PLUG 3-P	KM250MA3L
	CN153	10P SOCKET	KP200IB10L
	CN11	L-CONNECTOR(11P)	KPD11L

VIDEO FUNCTION ASSY (AWZ5418)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC502		LA7951
	IC504		LA7952
	IC1502		M66320FP
	IC501, IC503		NJM2233BLA
	IC505, IC509		NJM2234L
	IC1503		UPC78L05J
	Q505-Q507		2SA1115
	Q508		2SC2412K
	Q509		2SC2458
	D501-D504		HSS104-02

COILS

Mark	No.	Description	Part No.
	L1501, L1503, L501-L504		LAU680J
	L509-L511		LAU680J

CAPACITORS

Mark	No.	Description	Part No.
	C558, C559, C562		CCSQCH050C50
	C1526		CCSQCH102J50
	C1527		CCSQCH220J50
	C1529		CCSQCH820J50
	C1515		CEANP470M10
	C1506		CEAS101M10
	C507		CEAS101M16
	C521		CEAS2R2M50
	C1501, C1503, C1504, C1516-C1518		CEAS470M25
	C1523, C1525, C501-C506, C509		CEAS470M25
	C511, C513-C517, C519		CEAS470M25
	C552, C553, C557		CEAS470M25
	C561, C563		CEAS471M10
	C560		CEAS471M6
	C1522		CEAS4R7M50
	C1505		CKSQYB102K50
	C1502, C1507, C1519, C1521, C508		CKSQYF103Z50
	C510, C518, C520, C554-C556		CKSQYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R542, R548		RD1/2PM221J
	R541		RD1/2PM331J
	R1504		RD1/4PM680J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	CN3	PLUG 3-P	KM250MA3L
	CN154	19P SOCKET	KP200IB19L
	CN199	9P SOCKET	KP200IB9L

VIDEO FUNCTION ASSY (AWZ5431)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC502		LA7951
	IC504		LA7952
	IC507		M50554-003SP
	IC1502		M66320FP
	IC506		MM1067XD
	IC501, IC503, IC508		NJM2233BLA
	IC505, IC509		NJM2234L
	IC1503		UPC78L05J
	Q505-Q507		2SA1115
	Q508		2SC2412K
	Q503, Q504		2SC2458
	Q501, Q502, Q510		XDC124ES
	D508		1SS108
	D505-D507		1SS352
	D501-D504		HSS104-02

COILS

Mark	No.	Description	Part No.
	L506		LAU150J
	L507, L508		LAU270J
	L1501-L1503, L501-L504		LAU680J
	L509-L511		LAU680J

CAPACITORS

Mark	No.	Description	Part No.
	TC501		ACM-020
	C558, C559, C562		CCSQCH050C50
	C540, C546		CCSQCH101J50
	C1526		CCSQCH102J50
	C542, C544		CCSQCH150J50
	C1528		CCSQCH151J50
	C1527, C549, C551		CCSQCH220J50
	C535		CCSQCH221J50
	C543		CCSQCH330J50
	C1529		CCSQCH331J50
	C534		CCSQCH471J50
	C532		CCSQCH561J50
	C1503, C1515		CEANP470M10
	C536		CEASR47M50
	C526, C530, C531		CEAS010M50
	C527, C547		CEAS100M50
	C1506		CEAS101M10
	C507		CEAS101M16
	C521		CEAS2R2M50
	C1501, C1504, C1511, C1513, C1514		CEAS470M25
	C1516-C1518, C1523, C1525		CEAS470M25
	C501-C506, C509, C511, C513-C517		CEAS470M25
	C519, C538, C552, C553, C557		CEAS470M25
	C561, C563		CEAS471M10
	C560		CEAS471M6
	C1524		CEJA100M16
	C537		CEJA2R2M50
	C1505, C545		CKSQYB102K50
	C533		CKSQYB332K50
	C1502, C1507, C1512, C1519, C1521		CKSQYF103Z50
	C508, C510, C518, C520, C528, C539		CKSQYF103Z50
	C548, C550, C554-C556		CKSQYF103Z50
	C541		CKSQYF104Z50
	C529		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R542, R548		RD1/2PM221J
	R541		RD1/2PM331J
	R1504		RD1/4PM680J
	R1531		RD1/8PM133J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	X501	CERAMIC RESONATOR(503kHz)	ASS1112
	CN3	PLUG 3-P	KM250MA3L
	CN154	16P SOCKET	KP200IB16L
	CN199	9P SOCKET	KP200IB9L

CONNECTION ASSY (AWZ5419 and AWZ5432)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC551		TC9176P
	IC1552, IC555		XRA4558-P
	D552-D554		HSS104-02
	D551		RD5.1ESB2

CAPACITORS

Mark	No.	Description	Part No.
	C2554, C2555		CCSQCH101J50
	C1553, C2551		CCSQCH102J50
	C1564-C1567		CEAS100M50
	C1551		CEAS102M16
	C1552, C1556, C1557		CEAS470M25
	C1554, C1555, C1562, C1563		CEAS4R7M50
	C1558, C1559		CKSQYF103Z50
	C2552, C2553		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Part No.
	R552		RD1/2PM181J
	R564, R565		RD1/2PM221J
	R1561		RFA1/4PS100J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN114	SOCKET(27P)	AKP1099
	CN53	10P PLUG	KM200IB10
	CN51	12P PLUG	KM200IB12
	CN52	13P PLUG	KM200IB13
	CN54	19P PLUG(AWZ5419)	KM200IB19
	CN54	16P PLUG(AWZ5432)	KM200IB16
	CN99	9P PLUG	KM200IB9

TONE ASSY (AWZ5420 and AWZ5426)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC573		M5220P
	IC571		TC9162N
	IC572, IC574		XRA4558N-P
	Q577		2SA1115
	Q571-Q574		2SC2458
	D571-D574, D577-D580		HSS104-02
	D575, D576		RD5.1ESB2

CAPACITORS

Mark	No.	Description	Part No.
	C591, C592		CCSQCH151J50
	C573, C574		CEAS010M50
	C585, C586, C589, C590		CEAS100M50
	C599, C600		CEAS100M50
	C571, C572, C587, C588		CEAS4R7M50
	C593, C594		CEAS4R7M50
	C577, C578, C595, C596		CEASR47M50
	C575, C576		CFTXA154J50
	C579, C580		CFTXA473J50
	C605		CKDYF103Z50
	C583, C584		CKPUYB151K50
	C597, C598		CKSQYB103K50
	C601		CKSQYB471K50
	C581, C582		CQMA153J50

RESISTORS

Mark	No.	Description	Part No.
	R627, R628		RD1/4PM221J
	R631(AWZ5420 ONLY)		RD1/4PM2R7J
	R1597		RS1/10S000J
	R622-R624		RS1/10S102J
	R575, R576, R629, R630		RS1/10S104J
	R605, R606		RS1/10S223J
	R601, R602		RS1/10S473J
	R603, R604(AWZ5420)		RS1/10S562J
	VR573 (10kΩ×2)		ACS1029
	VR571, VR572 (30kΩ×2)		ACS1115
	Other Resistors		RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
		CABLE HOLDER(10P)	AKT1083
	CN55, CN56	15P PLUG	KM200IB15
	CN13	CONNECTOR(15P)	KPE15

FL U-COM ASSY (AWZ5434 and AWZ5438)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC701(AWZ5434)		PDG118A
	IC701(AWZ5438)		PDG117B
	Q702, Q703, Q705-Q708, Q710		2SC2458
	Q711(AWZ5434 ONLY)		XDA124ES
	Q701, Q712, Q713		XDC124ES
	Q704(AWZ5434 ONLY)		XDC143ES
	D711-D714, D717-D720(AWZ5434 ONLY)		AEL1100
	D735-D737, D739		AEL1100
	D745-D752(AWZ5434 ONLY)		AEL1100
	D754-D756(AWZ5434 ONLY)		AEL1100
	D734		AEL1151
	D723-D726, D753(AWZ5434 ONLY)		AEL1164
	D701-D710, D715, D716		HSS104-02
	D721, D722, D727, D728, D733		HSS104-02
	D740-D743, D761-D763		HSS104-02
	D764(AWZ5434 ONLY)		HSS104-02

COIL

Mark	No.	Description	Part No.
	L701		LAU220K

SWITCHES

Mark	No.	Description	Part No.
	S701-S732		ASG1034
	S733		ASX1015

CAPACITORS

Mark	No.	Description	Part No.
	C707 (47mF, 5.5V)		ACH1246
	C704, C706		CEAS010M50
	C702		CEAS101M10
	C708		CEAS470M50
	C701		CEJA010M50
	C705, C709		CKCYX473M25
	C703		CKPUYF473Z16

RESISTORS

Mark	No.	Description	Part No.
	R743		RD1/4PM221J
	R725, R728, R731(AWZ5434 ONLY)		RD1/4PM271J
	Other Resistors		RD1/8PM□□□J

OTHERS

Mark	No.	Description	Part No.
	V701	FL TUBE	AAV1196
	CN14	SOCKET(27P)	AKP1100
	CN20	18P SOCKET	AKP1106
	X701	CRYSTAL RESONATOR (8.00MHz)	ASS1015
		REMOTE RECEIVER UNIT	AXX1023

SR & S. TERMINAL ASSY (AWQ1024 and AWQ1026)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC651, IC652		LA7951
	IC653		NJM2234L
	IC654, IC655(AWQ1024 ONLY)		NJM2234L
	Q656, Q657, Q660		2SA1048
	Q652, Q653, Q658		2SA1115
	Q651, Q654(AWQ1024 ONLY)		2SA1115
	Q655, Q659		2SC2458
	Q1652		DTC143EK
	Q661, Q1651(AWQ1024 ONLY)		XDC124ES
	D651-D653, D655-D657		HSS104-02
	D1651(AWQ1024 ONLY)		HSS104-02
	D654		RD5. 1ESB
COILS			
	L651, L652, L655, L658 (AWQ1024 ONLY)		LAU680K
	L653, L654, L656, L657, L659, L660		LAU680K
CAPACITORS			
	C681, C682, C693		CCSQCH050C50
	C680, C683(AWQ1024 ONLY)		CCSQCH050C50
	C1658		CCSQCH101J50
	C688		CEANP470M10
	C684, C686		CEAS010M50
	C655, C656, C665, C671		CEAS100M50
	C1657		CEAS101M10
	C668, C669, C689		CEAS101M16
	C1651, C663, C677, C678		CEAS470M25
	C1654, C1655, C652, C654, C658 (AWQ1024 ONLY)		CEAS470M25
	C661, C676, C679(AWQ1024 ONLY)		CEAS470M25
	C692		CEAS470M25
	C1653(AWQ1026 ONLY)		CEAS470M25
	C687, C694		CEAS471M10
	C685		CEAS471M6
	C1652		CEJA470M16
	C1656		CKSQYB822K50
	C666, C667, C673, C674		CKSQYF103Z50
	C657, C662, C672, C675(AWQ1024 ONLY)		CKSQYF103Z50
	C672-C675, C690, C691		CKSQYF103Z50
	C659, C660, C664		CKSQYF104Z25
	C651, C653(AWQ1024 ONLY)		CKSQYF104Z25
	C670		CKSQYF104Z25
RESISTORS			
	R674(AWQ1024 ONLY)		RD1/2PM221J
	R698		RD1/2PM221J
	R671(AWQ1024 ONLY)		RD1/2PM331J
	R672, R673		RD1/2PM331J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN655	PIN JACK(1P)	AKB1168
	CN651	JACK	AKN1006
		JACK	AKN1020
	CN653, CN654	SOCKET	AKP1064
	CN12	CONNECTOR(14P)	KPE14
	CN34	CONNECTOR(6P)	KPE6

GUI ASSY (AWQ1025)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC801		CXA1645M
	IC803		HM514256AP10
	IC804		LH52B256N9LL
	IC809		MC74AC541M
	IC805		PDR008A
	IC808		SC78213GC
	IC807, IC812		TC74AC00F
	IC806, IC811		TC74HC573AF
	IC810		TC74HC74AF
	IC802		YGV606-F
	Q801-Q803		2SC2712
	Q804		2SC3732
	D801-D808		1SS352
COILS			
	L801, L806, L809, L810		ATX1008
	L818-L821		ATX1008
	L822-L830		ATX1026
	L811, L812, L814-L817		LCTA100J3225
	L802-L805, L807, L808		LCTA1R0J3225
CAPACITORS			
	C853 (47mF, 5.5V)		ACH1246
	C809		CCSQCH020C50
	C822, C823		CCSQCH120J50
	C840, C843		CCSQCH150J50
	C811		CCSQCH470J50
	C806		CCSQCH560J50
	C841		CEAS471M6
	C807		CEJA100M16
	C819, C826, C828, C833, C835		CEJA101M10
	C847		CEJA101M10
	C804, C812		CEJA470M16
	C817		CEJA4R7M35
	C810, C814-C816		CFTXA104J50
	C854		CKSQYB102K50
	C805, C813		CKSQYF103Z50
	C808, C818, C820, C821		CKSQYF104Z50
	C824, C825, C827, C831, C832		CKSQYF104Z50
	C801-C803, C829, C830, C834		CKSQYF473Z50
	C836-C839, C842, C844-C846		CKSQYF473Z50
	C848-C852, C858		CKSQYF473Z50
RESISTORS			
	All Resistors		RS1/10S□□□J
OTHERS			
	X801	CRYSTAL RESONATOR	ASS1056
	X802	CRYSTAL RESONATOR	ASS1104
	CN35	CONNECTOR(5P)	KPE5
	CN32	CONNECTOR(6P)	KPE6
	CN31	CONNECTOR(9P)	KPE9

PROLOGIC • SFC MODULE (AXQ1029)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2001		LA2785
	IC2007		LC32464M-80
	IC2008, IC2018		LC78835M
	IC2003-IC2006, IC2010, IC2011, IC2013		NJM4558M-D
	IC2017		NJM4558M-D
	IC2019		NJM78M05FAS
	IC2002		NJM78M09FAS
	IC2012		PDC017C
	IC2015		PDC018A
	IC2014		TC9162N
	Q2001		2SA1162
	Q2002		DTC124EK
	D2001, D2002, D2004		1SS226

COILS

Mark	No.	Description	Part No.
	L2004, L2006, L2010, L2014		ATX1008
	L2013, L2015		LCTAR22J3225
	L2003, L2005		LTA102J
	L2011, L2012		LTA473J

CAPACITORS

Mark	No.	Description	Part No.
	C2168		CCSQCH040C50
	C2084, C2085		CCSQCH080D50
	C2036, C2108, C2113		CCSQCH101J50
	C2164, C2167		CCSQCH150J50
	C2163		CCSQCH470J50
	C2080, C2081		CCSQCH471J50
	C2082, C2083		CCSQCH680J50
	C2018, C2021		CEANL3R3M50
	C2014, C2016, C2023, C2025		CEANL4R7M50
	C2122, C2126		CEANP101M16
	C2072, C2073		CEAS010M50
	C2047, C2048, C2053, C2058, C2064		CEAS100M50
	C2102, C2104, C2106, C2130, C2135		CEAS100M50
	C2060, C2066, C2153		CEAS101M10
	C2105		CEAS220M16
	C2068, C2069		CEAS220M25
	C2037, C2166		CEAS221M10
	C2003, C2008, C2123, C2127		CEAS221M16
	C2051, C2052, C2054, C2067, C2103		CEAS2R2M50
	C2076, C2077		CEAS330M16
	C2039		CEAS331M16
	C2029, C2056, C2092		CEAS470M10
	C2112		CEAS470M25
	C2138		CEAS471M10
	C2004-C2007, C2009, C2010		CEJA100M16
	C2032-C2034		CEJA100M16
	C2013, C2015, C2024, C2026		CEJAR47M50
	C2011, C2012, C2027, C2028		CFTXA104J50
	C2019, C2020		CFTXA154J50
	C2030		CFTXA474J50
	C2017, C2022		CFTYA154J50
	C2070, C2071, C2097		CKSQYB102K50
	C2078, C2079, C2086, C2087		CKSQYB103K50
	C2090, C2091, C2111		CKSQYB103K50
	C2158, C2159, C2161, C2162		CKSQYB104K25
	C2140-C2142		CKSQYB182K50
	C2100		CKSQYB222K50
	C2101		CKSQYB471K50
	C2074, C2075, C2095, C2110, C2155		CKSQYB472K50
	C2041, C2042, C2055, C2057, C2089		CKSQYB473K25
	C2093, C2165, C2169-C2172		CKSQYB473K25
	C2038, C2040, C2154		CKSQYB473K50
	C2031, C2059, C2061, C2062, C2065		CKSQYF104Z50
	C2096, C2107, C2109, C2129, C2134		CKSQYF104Z50
	C2136		CKSQYF104Z50
	C2001		CQMA223J50
	C2002		CQMA473J50
	C2035		CQMA681J50

RESISTORS

Mark	No.	Description	Part No.
	R2148		RD1/2PMFL4R7J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X2002	CERAMIC RESONATOR (4.19MHz)	ASS1018
	X2001	CRYSTAL RESONATOR (22.5792MHz)	ASS1114
	CN2001	15P SOCKET	KP200IB15L

7. ADJUSTMENTS

7.1 TUNER SECTION

1. Wiring ········ Connect the wires as shown in Fig. 7 – 1 (FM ANT. terminal : 75 Ω).
2. Preset ········· Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM : 10kHz/FM : 100kHz.

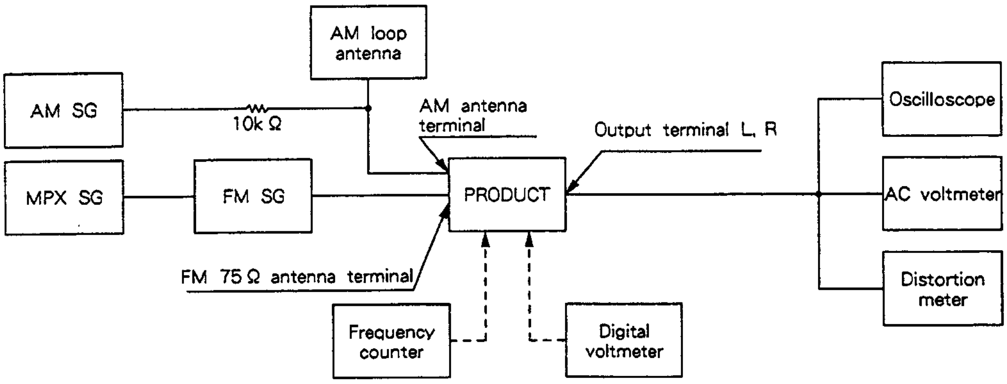

AM loop antenna
AM SG
10k Ω
AM antenna terminal
Output terminal L, R
Oscilloscope
MPX SG
FM SG
PRODUCT
AC voltmeter
FM 75 Ω antenna terminal
Distortion meter
Frequency counter
Digital voltmeter

Fig. 7 – 1 AM and FM adjustment wiring diagram

Note : Stereo modulation Main 1kHz L+R ±68.25kHz
Pilot 19kHz±6.75kHz

FM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Increasing front end sensitivity	98MHz	—	Weak input	98MHz	L402, L404, T402	Set the the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.
2	Center adjustment	98MHz	—	60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0±50mV.
3	Adjusting VCO	—	OFF	60dBμV	—	VR451	Adjust the output of terminal 44 to 76.0kHz±1.0kHz.
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dBμV	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.
5	Adjusting lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dBμV ($^{+1dB}_{-2dB}$)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.

AM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Adjusting lighting level of TUNED IND.	1000kHz	—	—	1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dBμV/m±3dB.

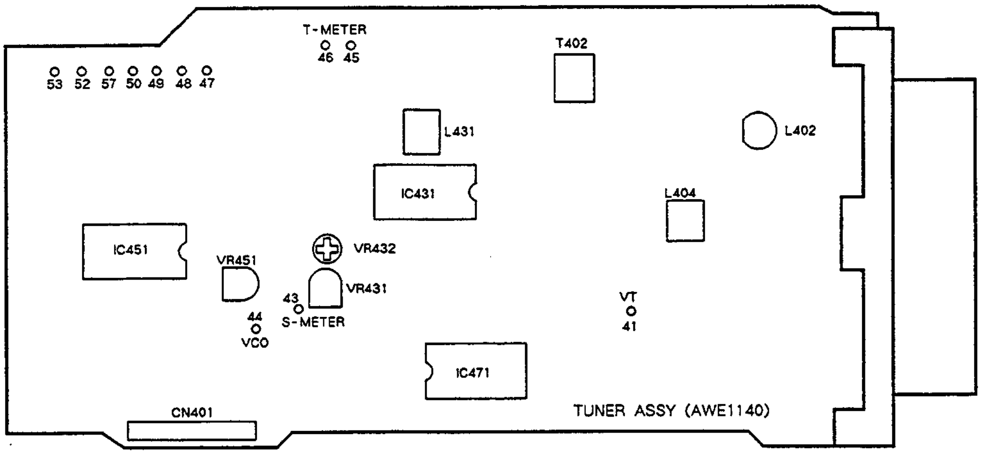
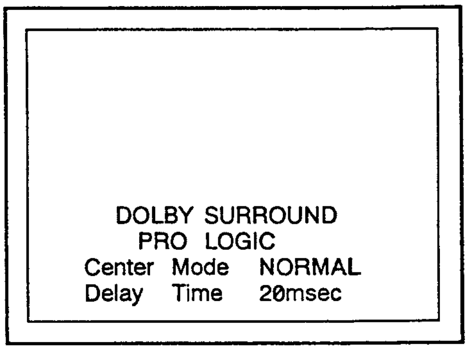

T-METER
46
45
T402
53
52
57
50
49
48
47
L431
L402
IC431
L404
IC451
VR451
VR432
VR431
43
44
S-METER
VCO
VT
41
IC471
CN401
TUNER ASSY (AWE1140)

Fig. 7 – 2 Adjustment location of TUNER SECTION

7.2 VIDEO FUNCTION ASSY SECTION

- Connect the VIDEO OUT (TO MONITOR TV) terminal to a monitor TV.

1. Push the DOLBY PRO LOGIC button.
2. Adjust the TC501 to center the superimposed display (Fig. 7 - 3), leaving equal margin on both right and left of the TV screen.



DOLBY SURROUND
PRO LOGIC
Center Mode NORMAL
Delay Time 20msec

Fig. 7 – 3

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3, 959, 590: Canadian numbers 1, 004, 603 and 1, 037, 877. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

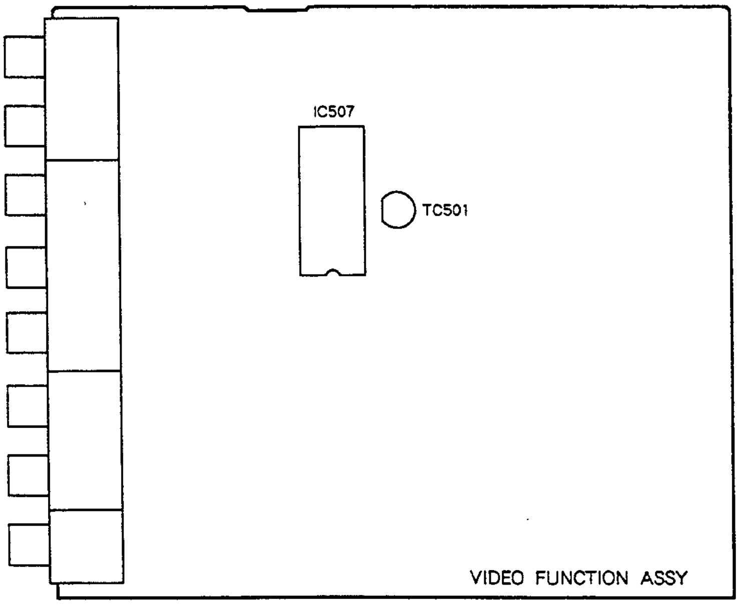
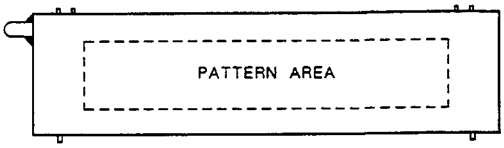

IC507
TC501
VIDEO FUNCTION ASSY

Fig. 7 – 4 Adjustment location of VIDEO FUNCTION SECTION

8. FL INFORMATION

■ AAV1196 (V701)

PIN LOCATION

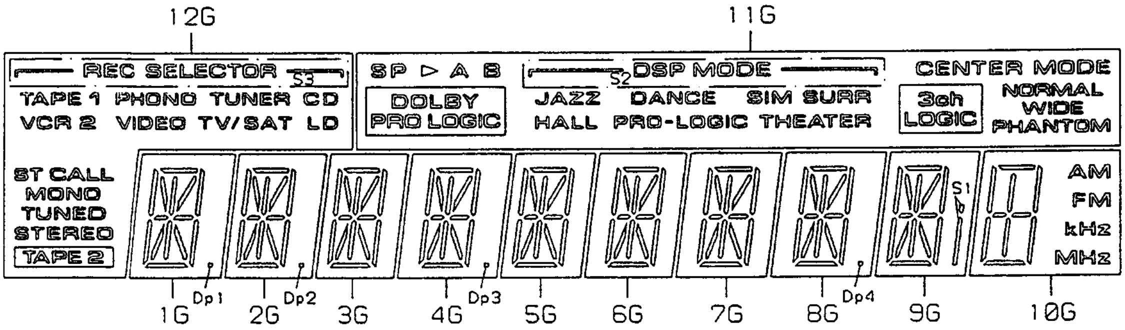

PATTERN AREA

PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CONNECTION	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2

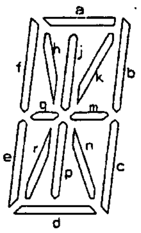
NOTE
1) F1,F2 --- Filament
2) NP ------ No pin
3) NX ------ No extend pin
4) DL ------ Datum Line
5) 1G~12G --- Grid

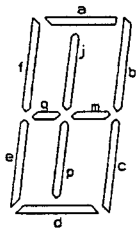
GRID ASSIGNMENT


12G
11G
REC SELECTOR
S3
TAPE 1 PHONO TUNER CD
VCR 2 VIDEO TV/SAT LD
SP ▷ A B
DOLBY PRO LOGIC
DSP MODE
S2
JAZZ DANCE SIM SURR
HALL PRO-LOGIC THEATER
CENTER MODE
3ch LOGIC
NORMAL
WIDE
PHANTOM
ST CALL
MONO
TUNED
STEREO
TAPE 2
S1
AM
FM
kHz
MHz
1G
Dp1
2G
Dp2
3G
4G
Dp3
5G
6G
7G
8G
Dp4
9G
10G

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	a	a	a	a	a	a	a	a	a	a	PHANTOM	ST CALL
P2	j	j	j	j	j	j	j	j	j	j	DOLBY PRO LOGIC	MONO
P3	k	k	k	k	k	k	k	k	k	AM	WIDE	LD
P4	h	h	h	h	h	h	h	h	h	FM	NORMAL	TV/SAT
P5	b	b	b	b	b	b	b	b	b	b	3ch LOGIC	VIDEO
P6	f	f	f	f	f	f	f	f	f	f	CENTER MODE	VCR 2
P7	g	g	g	g	g	g	g	g	g	g	PRO-LOGIC THEATER	-
P8	m	m	m	m	m	m	m	m	m	m	HALL	CD
P9	c	c	c	c	c	c	c	c	c	c	SIM SURR	TUNER
P10	e	e	e	e	e	e	e	e	e	e	DANCE	PHONO
P11	n	n	n	n	n	n	n	n	n	kHz	JAZZ	TAPE 1
P12	r	r	r	r	r	r	r	r	r	MHz	SP ▷	TUNED
P13	p	p	p	p	p	p	p	p	p	p	A	STEREO
P14	d	d	d	d	d	d	d	d	d	d	B	TAPE 2
P15	Dp1	Dp2	-	Dp3	-	-	-	Dp4	S1	-	S2	S3


a
h
j
k
f
b
g
m
e
r
n
p
c
d
(1G~9G)


a
j
f
b
g
m
e
p
c
d
(10G)

9. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG118A (IC701)
PDG117B (IC701)
CONTROL MICROCOMPUTER

●Pin Function

Note : *1 : PDG118A , *2 : PDG117B

No.	NAME	I/O	FUNCTION	ACTIV
1	MR RMC	I	Remote control signal input from sub-room side	H
2	RMC	I	Remote control signal input	H
3	*1: GUI-EN	I	Input for GUI U-COM (SC78213GC) ENABLE	L
	*2: PE5	O	Not used	—
4	*1: GUI-RESET	O	RESET output (SC78213GC, YGV606-F)	L
	*2: PE6	O	Not used	—
5	*1: BACK-UP	O	POWER ON/$\overline{\text{OFF}}$	H
	*2: PE7/T0	O	Not used	—
6	POWER RY.	O	POWER Relay ON/OFF output	H
7	*1: GUI-CS	O	GUI U-COM (SC78213GC) CS output	L
	*2: OSD-CS	O	OSD IC (M50554-003) CS output	L
8	*1: GUI-CLK	O	GUI U-COM (SC78213GC) CLOCK output	—
	*2: OSD-CLOCK	O	OSD IC (M50554-003) CLOCK output	—
9	*1: GUI-DATA OUT	O	GUI U-COM (SC78213GC) DATA output	—
	*2: OSD-DATA	O	OSD IC (M50554-003) DATA output	—
10	*1: GUI-DATA IN	I	GUI U-COM (SC78213GC) DATA input	—
	*2: VIDEO DET	I	Input for VIDEO signal ON/ OFF detection	L
11	CLOCK	O	CLOCK output	—
12	DSP.CE	O	DSP IC CE	L
13	DATA	O	DATA output	—
14	SR. OUT	O	SR signal output	H

No.	NAME	I/O	FUNCTION	ACTIV
15	KEY. IN. 1	I	KEY matrix input 1	—
16	KEY. IN. 2	I	KEY matrix input 2	—
17	KEY. IN. 3	I	KEY matrix input 3	—
18	JOG IN 1	I	JOG input 1	—
19	JOG IN 2	I	JOG input 2	—
20	ST1	O	STROB output 1	H
21	ST2	O	STROB output 2	H
22	M66320 LE	O	VIDEO system IC M66320FP Chip select	H
23	VOLUME IN	I	MASTER VOLUME input (A/D input)	—
24	FAN-T IN	I	FAN TEMPLE input (A/D input)	—
25	FAN-W IN	I	FAN WATTAGE input (A/D input)	—
26	TUNED	I	TUNER signal ON/OFF input	L
27	PLL-DATA	O	PLL IC (LM7001) DATA output	—
28	PLL-CLOCK	O	PLL IC (LM7001) CLOCK output	—
29	PLL-CE	O	PLL IC (LM7001) CE output	H
30	RESET	I	RESET input	L
31	EXTAL	O	Connect a ceramic resonator 8 MHz	—
32	XTAL	I		
33	Vss	—	GND	—
34	TUNER MUTE	O	MUTE for TUNER	H
35	*1: SR MUTE	O	MUTE output of Remote control signal	H
	*2: PD1/S1	O	Not used	—
36	A. MUTE	O	Audio MUTE	H

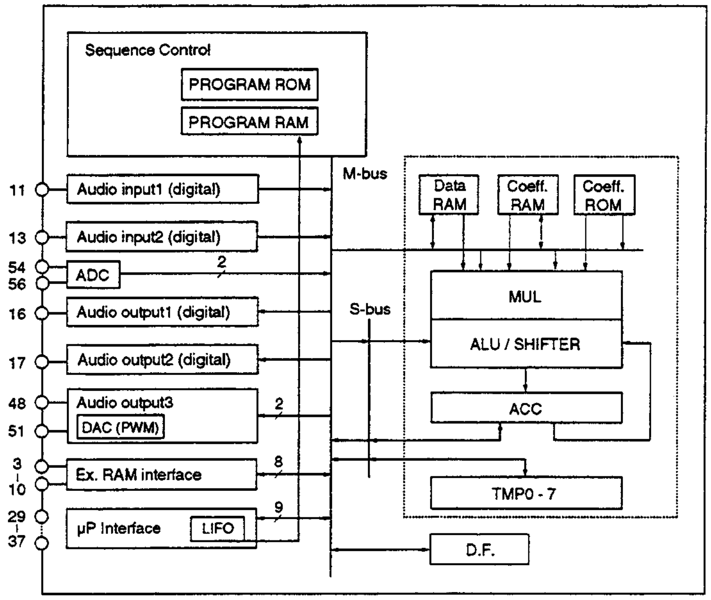
Note : *1 : PDG118A , *2 : PDG117B

<table>
<tr><th>No.</th><th>NAME</th><th>I/O</th><th>FUNCTION</th><th>ACTIV</th></tr>
<tr><td>37</td><td>VH/VL</td><td>O</td><td>SPEAKER both A and B ON : H</td><td>H</td></tr>
<tr><td>38</td><td>VOL LED</td><td>O</td><td>LED for MASTER VOLUME</td><td>H</td></tr>
<tr><td>39</td><td>VOL UP</td><td>O</td><td>MASTER VOLUME control</td><td rowspan="2">—</td></tr>
<tr><td>40</td><td>VOL DOWN</td><td>O</td><td><table><tr><th></th><th>UP</th><th>DOWN</th><th>STOP</th></tr><tr><td>UP</td><td>H</td><td>L</td><td>L</td></tr><tr><td>DOWN</td><td>L</td><td>H</td><td>L</td></tr></table></td></tr>
<tr><td>41</td><td>FAN ON/OFF</td><td>O</td><td>FAN ON/OFF</td><td>H</td></tr>
<tr><td>42</td><td>OSD MAIN/SUB</td><td>O</td><td>OSD MAIN/SUB switching (MAIN/SUB = L/H)</td><td>—</td></tr>
<tr><td>43</td><td>DIRECT</td><td>O</td><td>DIRECT ON/OFF</td><td>H</td></tr>
<tr><td>44</td><td>S1 / K.OUT 11</td><td>O</td><td>FL Segment output 1 / KEY matrix output 11</td><td>—</td></tr>
<tr><td>45</td><td>S2 / K.OUT 10</td><td>O</td><td>FL Segment output 2 / KEY matrix output 10</td><td>—</td></tr>
<tr><td>46</td><td>S3/ K.OUT 9</td><td>O</td><td>FL Segment output 3 / KEY matrix output 9</td><td>—</td></tr>
<tr><td>47</td><td>S4/ K.OUT 8</td><td>O</td><td>FL Segment output 4 / KEY matrix output 8</td><td>—</td></tr>
<tr><td>48</td><td>S5 / K.OUT 7</td><td>O</td><td>FL Segment output 5 / KEY matrix output 7</td><td>—</td></tr>
<tr><td>49</td><td>S6 / K.OUT 6</td><td>O</td><td>FL Segment output 6 / KEY matrix output 6</td><td>—</td></tr>
<tr><td>50</td><td>S7 / K.OUT 5</td><td>O</td><td>FL Segment output 7 / KEY matrix output 5</td><td>—</td></tr>
<tr><td>51</td><td>S8 / K.OUT 4</td><td>O</td><td>FL Segment output 8 / KEY matrix output 4</td><td>—</td></tr>
<tr><td>52</td><td>S9 / K.OUT 3</td><td>O</td><td>FL Segment output 9 / KEY matrix output 3</td><td>—</td></tr>
<tr><td>53</td><td>S10 / K.OUT 2</td><td>O</td><td>FL Segment output 10/ KEY matrix output 2</td><td>—</td></tr>
<tr><td>54</td><td>S11 / K.OUT 1</td><td>O</td><td>FL Segment output 11 / KEY matrix output 1</td><td>—</td></tr>
<tr><td>55</td><td>S12</td><td>O</td><td>FL Segment output 12</td><td>—</td></tr>
<tr><td>56</td><td>S13</td><td>O</td><td>FL Segment output 13.</td><td>—</td></tr>
<tr><td>57</td><td>S14</td><td>O</td><td>FL Segment output 14</td><td>—</td></tr>
<tr><td>58</td><td>S15</td><td>O</td><td>FL Segment output 15</td><td>—</td></tr>
<tr><td>59</td><td>G1</td><td>O</td><td>FL grit output 1</td><td>—</td></tr>
<tr><td>60</td><td>G2</td><td>O</td><td>FL grit output 2</td><td>—</td></tr>
<tr><td>61</td><td>G3</td><td>O</td><td>FL grit output 3</td><td>—</td></tr>
<tr><td>62</td><td>G4</td><td>O</td><td>FL grit output 4</td><td>—</td></tr>
<tr><td>63</td><td>G5</td><td>O</td><td>FL grit output 5</td><td>—</td></tr>
</table>

No.	NAME	I/O	FUNCTION	ACTIV
64	G6	O	FL Grit output 6	—
65	G7	O	FL Grit output 7	—
66	G8	O	FL Grit output 8	—
67	G9	O	FL Grit output 9	—
68	G10	O	FL Grit output 10	—
69	G11	O	FL Grit output 11	—
70	G12	O	FL Grit output 12	—
71	Vfdp	—	FL – VF Load power supply input	—
72	Vdd	—	+ 5 V power supply input	—
73	NC	—	+ 5 V	—
74	SP-A	O	SPEAKER A ON/OFF	H
75	SP-B	O	SPEAKER B ON/OFF	H
76	C/R RY	O	CENTER/REAR Relay	H
77	MR RY	O	MULTI ROOM Relay	H
78	STEREO	I	TUNER STEREO input	H
79	WAKE UP	I	AC pulse input	—
80	*1: GUI MUKAI	I	GUI U-COM (SC78213GC) BUSY input	H
	*2: TE2	O	Not used	—

■ PDC017C (IC2012)
DSP

● Block Diagram


Sequence Control
PROGRAM ROM
PROGRAM RAM
M-bus
11
Audio input1 (digital)
13
Audio input2 (digital)
54
56
ADC
2
16
Audio output1 (digital)
S-bus
17
Audio output2 (digital)
48
51
Audio output3
DAC (PWM)
2
3
10
Ex. RAM interface
8
29
37
µP Interface
LIFO
9
Data RAM
Coeff. RAM
Coeff. ROM
MUL
ALU / SHIFTER
ACC
TMP0 - 7
D.F.

● Pin Function

(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

No.	NAME	I/O	FUNCTION
1	$\overline{DWRT}$ (E)	O	External memory write signal output
2	$\overline{CE}$/$\overline{CS}$ (E)	O	External memory enable/select signal output (SRAM, PSRAM, ROM)
3	D7 (E)	I/O	Data I/O (One DRAM:D3 to D0, others:D7 to D0)
4	D6 (E)		
5	D5 (E)		
6	D4 (E)		
7	D3 (E)		
8	D2 (E)		
9	D1 (E)		
10	D0 (E)		
11	ASI1 (A)	I	Audio input
12	BCK1 (A)	I	ASI1 bit clock input
13	ASI2 (A)	I	Audio input
14	BCK2 (A)	I	ASI2 bit clock input
15	LRCKO (A)	O	fs output (LRCKI through output or 1/512 or 1/384 divided output of OSC1)
16	ASO1 (A)	O	Audio output
17	ASO2 (A)		
18	AOWCK (A)	O	2 fs output (1/32 divided output of BCK1 or 1/256 or 1/192 divided output of OSC1)

No.	NAME	I/O	FUNCTION
19	LRCKI (A)	I	fs input (Lch and Rch switching signal)
20	V_{DD}	—	Digital block V_{DD} (Connected to + 5V.)
21	OSC1	I	Connected to crystal Resonator.
22	OSC2	O	Connected to crystal Resonator.
23	Vss	—	Digital block Vss (Connected to GND.)
24	BCKDV	O	32 fs output (1/2 divided output of BCK1 or 1/16 or 1/12 divided output of OSC1)
25	BCKO	O	64 fs output (BCK1 through output or 1/8 or 1/6 divided output of OSC1)
26	FS1280	O	128 fs output (1/4 or 1/3 divided output of SCKI or 1/4 or 1/3 divided output of OSC1)
27	SCKDV	O	192 fs or 256 fs output (1/2 divided output of SCKI or 1/2 divided output of OSC1)
28	SCKO	O	384 fs or 512 fs output (SCKI through output or OSC1 through output)
29	SO (M)	O	Serial data output to control microprocessor (8-bit serial)
30	$\overline{SOAK}$ (M)	O	Output that indicates serial output is in function.
31	$\overline{SIAK}$ (M)	O	Output that indicates serial input is in function.
32	SOCK (M)	I	SO transfer clock input
33	$\overline{SORQ}$ (M)	I	Serial output request signal input

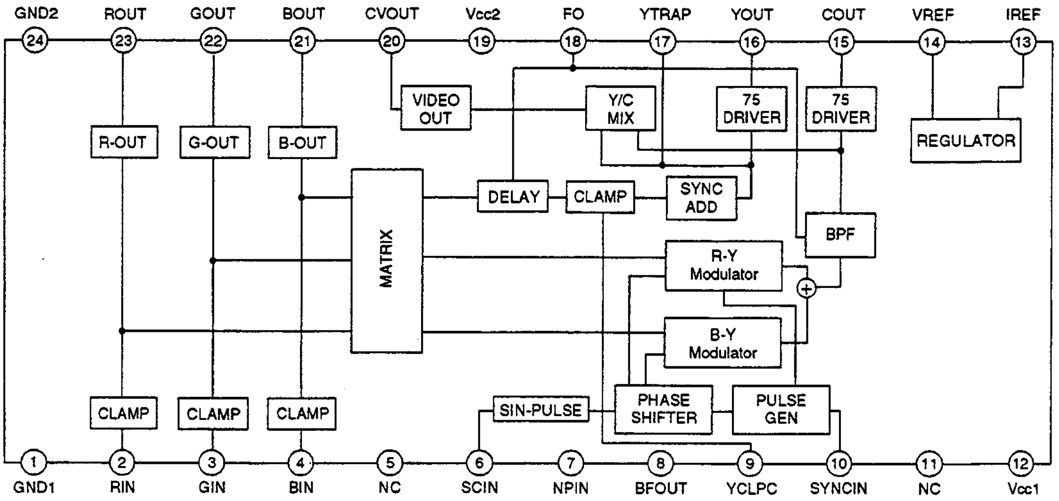
(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

No.	NAME	I/O	FUNCTION
34	$\overline{\text{SRDY}}$ (M)	I	Ready signal input that indicates serial data input from control microprocessor is completed.
35	SICK (M)	I	SI transfer clock input
36	SI (M)	I	Serial data input from control microprocessor (8-bit serial)
37	$\overline{\text{SIRQ}}$ (M)	I	Serial input request signal input
38	SCKI	I	384 fs or 512 fs input
39	$\overline{\text{SELC}}$	I	System clock switching (0: External (SCKI), 1: Internal)
40	TEST6	O	Test (Normally no connection)
41	VDD	—	Digital block VDD (Connected to +5V.)
42	TEST1	I	Test (Normally connected to GND.)
43	TEST2		
44	TEST3		
45	TEST4		
46	TEST5		
47	DALVss	—	D/A Vss (Lch). Connected to GND.
48	DAOL (A)	O	D/A output (Lch)
49	DALVDD	—	D/A VDD (Lch). Connected to +5V.
50	DARVss	—	D/A Vss (Rch). Connected to GND.
51	DAOR (A)	O	D/A output (Rch)
52	DARVDD	—	D/A VDD (Rch). Connected to +5V.
53	DZLOUT (A)	O	A/D dither output (Lch)
54	ADL2 (A)	O	A/D output (Lch)
55	ADLVss	—	A/D Vss (Lch). Connected to GND.
56	ADL1 (A)	I	A/D input (Lch)
57	ADLVDD	—	A/D VDD (Lch). Connected to +5V.
58	ADL3 (A)	O	A/D output (Lch)
59	DZROUT (A)	O	A/D dither output (Rch)
60	ADR2 (A)	O	A/D output (Rch)
61	ADRVss	O	A/D Vss (Rch). Connected to GND.
62	ADR1 (A)	I	A/D input (Rch)
63	ADRVDD	—	A/D VDD (Rch). Connected to +5V.
64	ADR3 (A)	O	A/D output (Rch)
65	$\overline{\text{SACK1}}$	I	Frequency division switching for creating 128 fs (0: 1/3, 1: 1/4)

No.	NAME	I/O	FUNCTION
66	$\overline{\text{SACK2}}$	I	L/R clock and bit clock switching (0:External, 1:Internal)
67	$\overline{\text{SACK3}}$	I	Input system clock frequency switching (0:768 fs, 1:384 fs, or 512 fs)
68	$\overline{\text{RES}}$	I	Reset
69	Vss	—	Digital block Vss (Connected to GND.)
70	VDD	—	Digital block VDD (Connected to +5V.)
71	P0	I/O	General-purpose port (with pull-up)
72	P1		
73	P2		
74	P3		
75	P4		
76	P5		
77	P6		
78	P7		
79	A0 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
80	A1 (E)		
81	A2 (E)		
82	A3 (E)		
83	A4 (E)		
84	A5 (E)		
85	A6 (E)		
86	A7 (E)		
87	A8 (E)		
88	A9 (E)		
89	VDD	—	Digital block VDD (Connected to +5V.)
90	Vss	—	Digital block Vss (Connected to GND.)
91	A10 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
92	A11 (E)		
93	A12 (E)		
94	A13 (E)		
95	A14 (E)		
96	A15 (E)		
97	A16 (E)		
98	$\overline{\text{RAS}}$ (E)	O	$\overline{\text{RAS}}$ signal output during DRAM access
99	$\overline{\text{CAS}}$ (E)	O	$\overline{\text{CAS}}$ signal output during DRAM access
100	$\overline{\text{DREAD}}$(E)	O	External memory read signal output

■ CXA1645M (IC801)
RGB TO COMPOSITE-VIDEO ENCODER

●Block Diagram


GND2
ROUT
GOUT
BOUT
CVOUT
Vcc2
FO
YTRAP
YOUT
COUT
VREF
IREF
24
23
22
21
20
19
18
17
16
15
14
13
VIDEO OUT
Y/C MIX
75 DRIVER
75 DRIVER
R-OUT
G-OUT
B-OUT
REGULATOR
DELAY
CLAMP
SYNC ADD
MATRIX
BPF
R-Y Modulator
B-Y Modulator
CLAMP
CLAMP
CLAMP
SIN-PULSE
PHASE SHIFTER
PULSE GEN
1
2
3
4
5
6
7
8
9
10
11
12
GND1
RIN
GIN
BIN
NC
SCIN
NPIN
BFOUT
YCLPC
SYNCIN
NC
Vcc1

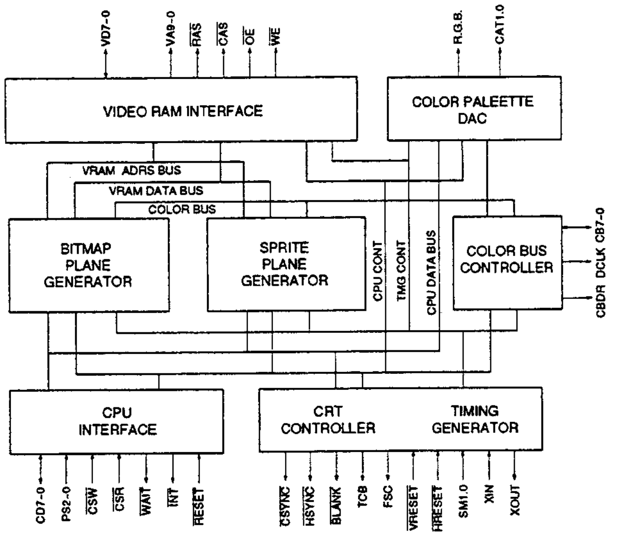
●Pin Function

No.	NAME	FUNCTION
1	GND1	GND for circuits other than RGB output, composite video output, and Y/C output circuits.
2	RIN	Analog RGB signal input
3	GIN	
4	BIN	
5	NC	No connection
6	SCIN	Sub-carrier input. Receives sign wave or pulse of 0.4 Vp-p to 5.0 Vp-p input level.
7	NPIN	NTSC and PAL switching. NTSC : Vcc PAL : GND
8	BFOUT	BF pulse monitor output
9	YCLPC	Y signal clamping time constant. Connects 0.1 µF capacitor between GNDs.
10	SYNCIN	Composite SYNC signal input. TTL level input. L (≦ 0.8 V) : SYNC period H (≧ 2.0 V)
11	NC	No connection
12	Vcc1	Power supply for circuits other than RGB output, composite Video output, and Y/C output circuits.

No.	NAME	FUNCTION
13	IREF	Decides internal reference current. Connects 47 kΩ resister between GNDs.
14	VREF	Internal reference voltage
15	COUT	C-signal output
16	YOUT	Y-signal output
17	YTRAP	Reduces the cross-color caused by sub-carrier frequency component contained in the Y signal.
18	FO	Adjusts internal filter fo. Connects the following resisters between GNDs according to NTSC/PAL modes. NTSC : 20 kΩ (± 1%) PAL : 16 kΩ (± 1%)
19	Vcc2	Power supply for RGB output, composite video output, and Y/C output circuits.
20	CVOUT	Composite video signal output
21	BOUT	Analog RGB signal output
22	GOUT	
23	ROUT	
24	GND2	GND for RGB output, composite video output, and Y/C output circuits.

■ YGV606-F (IC802)
VIDEO DISPLAY PROCESSOR

●Block Diagram


VD7-0
VA9-0
RAS
CAS
OE
WE
R.G.B.
CAT1.0
VIDEO RAM INTERFACE
COLOR PALEETTE DAC
VRAM ADRS BUS
VRAM DATA BUS
COLOR BUS
BITMAP PLANE GENERATOR
SPRITE PLANE GENERATOR
CPU CONT
TMG CONT
CPU DATA BUS
COLOR BUS CONTROLLER
CB7-0
DCLK
CBDR
CPU INTERFACE
CRT CONTROLLER
TIMING GENERATOR
CD7-0
PS2-0
CSW
CSR
WAIT
INT
RESET
CSYNC
HSYNC
BLANK
TCB
FSC
VRESET
HRESET
SM1.0
XIN
XOUT

●Pin Function

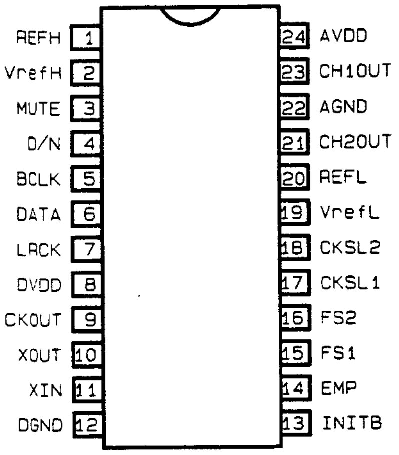
NAME	FUNCTION
CD7-0	CPU 8-bit bi-directional data bus
PS2-0	I/O port number specification input. Selects P6 to P0 of AVDP.
$\overline{\text{CSW}}$	Strobe signal input for writing data from CPU to ADVP
$\overline{\text{CSR}}$	Srtobe signal input for reading data from CPU to ADVP
$\overline{\text{WAIT}}$	Wait signal to CPU
$\overline{\text{INT}}$	Interruption request signal output to CPU
$\overline{\text{RESET}}$	Power ON reset signal. Initializes AVDP at low level.
VD7-0	VRAM data bus
VA9-0	VRAM address bus
$\overline{\text{RAS}}$	DRAM row address strobe for VRAM
$\overline{\text{CAS}}$	DRAM column address atrobe signal for VRAM
$\overline{\text{OE}}$	DRAM data output enable signal for VRAM
$\overline{\text{WE}}$	DRAM write enable signal for VRAM
R, G, B	Liner RGB output
CAT1,0	Color code attribute timing output. Generated according to the color pallet AT1 and AT0, and their color code liner RGB output timing.
CB7-0	Display color code input/output with AVDP (2-dot faster than liner RGB)
DCLK	Dot clock output. The input/outputs of CB7 to CB0 are synchronized with this clock.

NAME	FUNCTION
CBDR	Indicates the input/output status of CB7 to CB0. CBDR is "L" : CB7 to CB0 are input. CBDR is "H" : CB7 to CB0 are output.
$\overline{\text{CSYNC}}$	Composite SYNC signal output or vertical SYNC signal output
$\overline{\text{HSYNC}}$	Horizontal SYNC signal output. Equalizing pulse is not inserted.
$\overline{\text{BLANK}}$	Blanking period output
FSC	Sub-carrier clock output for NTSC video encoder. Valid only in NTSC mode.
$\overline{\text{VRESET}}$	Vertical timing reset input
$\overline{\text{HRESET}}$	Horizontal timing reset. AVDP horizontal timing is set to the horizontal SYNC start position during falling of this signal. Additionally, the dot clock phase is defined against the main clock.
TCB	Color burst insertion timing signal output
SM	Scan mode select input SM: High → Scan mode: NTSC SM: Low → Scan mode: PAL
XIN , XOUT	Connected to crystal Resonator. External oscillation clock is input to XIN.
AVDD.ADSS	RGB analog power supply input
VDD,VSS	Digital power supply input
TSTP	Internal circuit test input. Normally "H" or no connection.

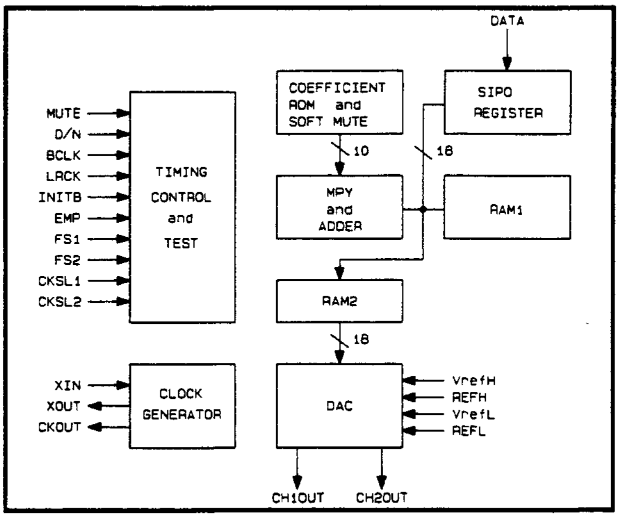
■ LC7883M (IC2008, IC2018 : PROLOGIC•SFC MODULE)

•18-bit Digital Filter and 18-bit D/A Converter, CMOS IC

- Pin Assignment (Top View)


REFH 1
VrefH 2
MUTE 3
D/N 4
BCLK 5
DATA 6
LRCK 7
DVDD 8
CKOUT 9
XOUT 10
XIN 11
DGND 12
24 AVDD
23 CH1OUT
22 AGND
21 CH2OUT
20 REFL
19 VrefL
18 CKSL2
17 CKSL1
16 FS2
15 FS1
14 EMP
13 INITB

- Block Diagram

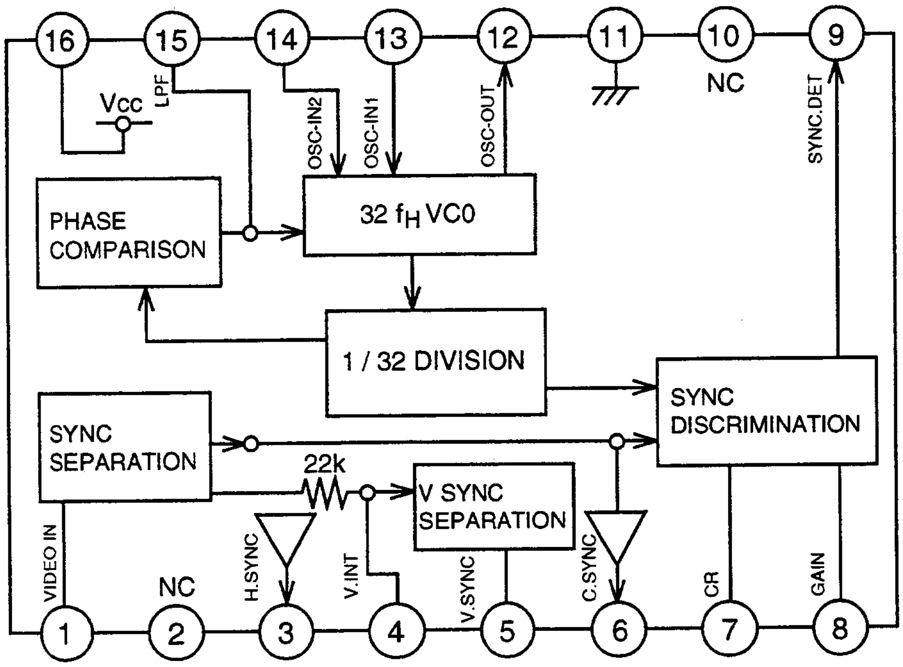

DATA
COEFFICIENT ROM and SOFT MUTE
SIPO REGISTER
10
18
MPY and ADDER
RAM1
RAM2
18
DAC
MUTE
D/N
BCLK
LRCK
INITB
EMP
FS1
FS2
CKSL1
CKSL2
TIMING CONTROL and TEST
XIN
XOUT
CKOUT
CLOCK GENERATOR
VrefH
REFH
VrefL
REFL
CH1OUT
CH2OUT

- Pin Function

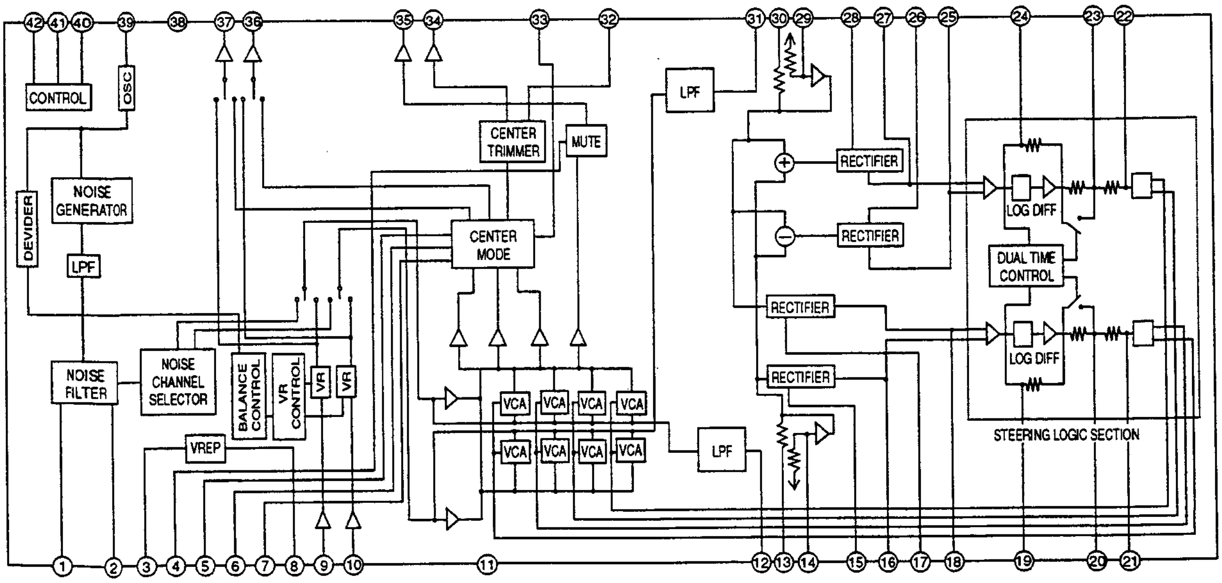
No.	Name	Description
1	REFH	Reference Voltage "H" Terminal Usually connected to AGND via capacitor.
2	Vref H	Reference Voltage "H" Input Terminal
3	MUTE	Mute Signal Input Terminal "H": Soft Mute ON
4	D/N	Standard/Double Speed Mode Changeover Terminal "H": Double speed; "L": Standard speed
5	BCLK	Bit Clock Input Terminal
6	DATA	Digital Audio Data Input Terminal Inputs with 2'S complement, MSB first
7	LRCK	LR Clock Input Terminal Inputs CH1 with "H" and CH2 with "L".
8	DVDD	Digital System Power Terminal
9	CKOUT	Clock Output Terminal at 392 fs: 196 fs clock excluding 392 fs: XIN frequency clock
10	XOUT	Crystal Oscillator Output Terminal (System Clock Output Terminal)
11	XIN	Crystal Oscillator Input Terminal (System Clock Input Terminal)
12	DGND	Digital System Ground Terminal
13	INITB	Initializing Signal Input Terminal With "L", initializing is performed.

<table>
<tr><th>No.</th><th>Name</th><th>Description</th></tr>
<tr><td>14</td><td>EMP</td><td>De-emphasis Filter ON/OFF Changeover Terminal "H": ON, "L": OFF</td></tr>
<tr><td>15</td><td>FS1</td><td rowspan="2">De-emphasis Filter 32kHz/44.1kHz/48kHz Mode Selection Terminal
<table>
<tr><td>FS1</td><td>L</td><td>H</td><td>H</td><td>L</td></tr>
<tr><td>FS2</td><td>L</td><td>L</td><td>H</td><td>H</td></tr>
<tr><td>fs</td><td colspan="2">44.1kHz</td><td>32kHz</td><td>48kHz</td></tr>
</table></td></tr>
<tr><td>16</td><td>FS2</td></tr>
<tr><td>17</td><td>CKSL1</td><td rowspan="2">System Clock Selection Terminal
<table>
<tr><th>CKSL1</th><th>CKSL2</th><th>System Clock</th></tr>
<tr><td>L</td><td>L</td><td>384 fs</td></tr>
<tr><td>L</td><td>H</td><td>392 fs</td></tr>
<tr><td>H</td><td>L</td><td>448 fs</td></tr>
<tr><td>H</td><td>H</td><td>512 fs</td></tr>
</table></td></tr>
<tr><td>18</td><td>CKSL2</td></tr>
<tr><td>19</td><td>VrefL</td><td>Reference Voltage "L" Input Terminal</td></tr>
<tr><td>20</td><td>REFL</td><td>Reference Voltage "L" Terminal
Normally connected to AGND via capacitor.</td></tr>
<tr><td>21</td><td>CH2OUT</td><td>CH2 Analog Output Terminal</td></tr>
<tr><td>22</td><td>AGND</td><td>Analog System Ground Terminal</td></tr>
<tr><td>23</td><td>CH1OUT</td><td>CH1 Analog Output Terminal</td></tr>
<tr><td>24</td><td>AVDD</td><td>Analog System Power Terminal</td></tr>
</table>

■MM1067XD (IC506)


16
15
14
13
12
11
10
9
Vcc
LPF
OSC-IN2
OSC-IN1
OSC-OUT
NC
SYNC.DET
PHASE COMPARISON
32 fH VC0
1 / 32 DIVISION
SYNC DISCRIMINATION
SYNC SEPARATION
22k
V SYNC SEPARATION
VIDEO IN
NC
H.SYNC
V.INT
V.SYNC
C.SYNC
CR
GAIN
1
2
3
4
5
6
7
8

■LA2785 (IC2001)


42
41
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26
25
24
23
22
CONTROL
OSC
DEVIDER
NOISE GENERATOR
LPF
NOISE FILTER
NOISE CHANNEL SELECTOR
BALANCE CONTROL
VR CONTROL
VR
VR
VREP
CENTER TRIMMER
MUTE
CENTER MODE
VCA
VCA
VCA
VCA
VCA
VCA
VCA
VCA
LPF
LPF
RECTIFIER
RECTIFIER
RECTIFIER
RECTIFIER
LOG DIFF
LOG DIFF
DUAL TIME CONTROL
STEERING LOGIC SECTION
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17
18
19
20
21

10. REMOTE CONTROL UNIT

10.1 FOR CU-VSX084 (AXD1385)

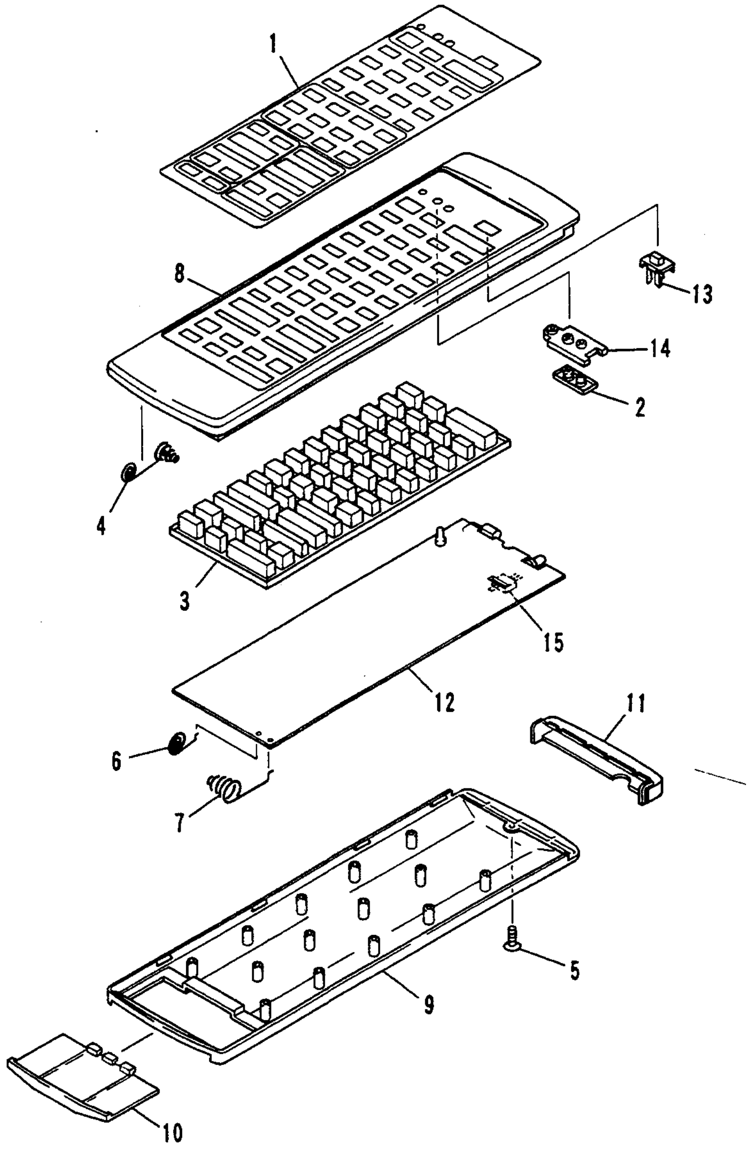
■ EXPLODED VIEW AND PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts List

Mark	No.	Description	Parts No.
	1	PLATE	AZA1984
	2	RUBBER SHEET (A) (S102)	AZA1985
	3	RUBBER SHEET (B) (S103)	AZA1986
	4	TERMINAL	AZB1334
	5	SCREW	AZB1335
	6	TERMINAL (A)	AZB1379
	7	TERMINAL (B)	AZB1380
	8	CASE (A)	AZN2254
	9	CASE (B)	AZN2255
	10	BATTERY COVER	AZN2256
	11	FILTER	AZN2257
NSP	12	P. C. BOARD	AZN2258
	13	KNOB (VIDEO/AUDIO)	AZN2259
	14	FRAME	AZN2260
	15	SLIDE SW (S101)	AZS1134



■ PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10^1 → 561 ······ RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 × 10^3 → 473 ······ RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ······ RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ······ RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562 × 10^1 → 5621 ······ RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

Mark	No.	Description	Parts No.
	SEMICONDUCTORS		
	IC1	μ-COM	AZC1841
	IC2	IC	PST9121N
	Q1	CHIP TRANSISTOR	2SC3265
	D1	LED	SE303A-C
	D2	CHIP DIODE	RLS73
	D3	DIODE	SPS-503C-3
	D4, 5	CHIP DIODE	RLS73
	D6	LED	SLC-22VR
	CAPACITORS		
	C1	ELECT. CAPACITOR	CEAS221M25
	C2	ELECT. CAPACITOR	CEAS101M10
	C3	ELECT. CAPACITOR	CEAS0R1M50
	C4, 5	CERAMIC CAPACITOR	CCDSL330J50
	C6	ELECT. CAPACITOR	CEAS101M10
	C7	CERAMIC CAPACITOR	CCDSL101J50
	C8	ELECT. CAPACITOR	CEAS0R1M50
	RESISTORS		
	R1	CARBON FILM RESISTOR	RD1/4PM020J
		Other resistors	RD1/8PM☐☐☐J
	OTHERS		
	X1	RESONATOR	FCR4.0MC3

■ SCHEMATIC DIAGRAM

NOTE

▭ :Indicates a chip resistor.

╪ :Indicates a chip capacitor.

⊠ :Indicates a chip transistor.

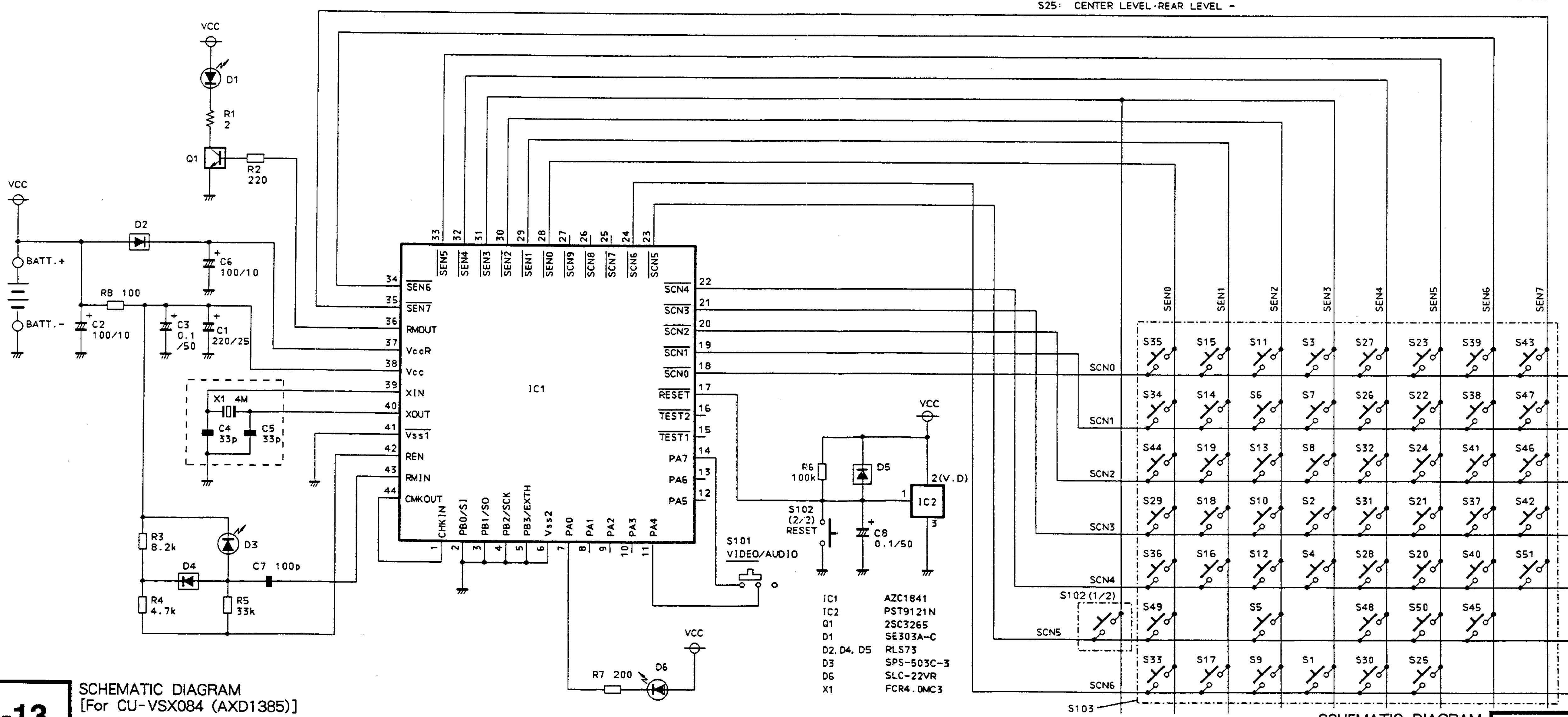
⊠ :Indicates a chip diode.

NOTE FOR SCHEMATIC DIAGRAMS (Type 2A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or µF unless otherwise noted.
   Ratings: capacitor (µF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or µH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   ▭ or ← V :
   DC voltage (V) at no input signal unless otherwise noted.
   ⇦ mA or ← mA :
   DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ or ⊘ : Adjusting point.
   - : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH−☐ ON THE SCHEMATIC DIAGRAM:**
   - SCH−☐ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):

S101: AUDIO/VIDEO
S102: LEARN·RESET
S1: RECEIVER POWER
S2: MUTING
S3: MUSTER VOLUME −
S4: MUSTER VOLUME +
S5: TV POWER
S6: 1
S7: 2
S8: 3
S9: BAND TV FUNC
S10: 4 TUNER/TV
S11: 5
S12: 6
S13: 0/10
S14: 7
S15: 8
S16: 9
S17: FREQUENCY TV VOLUME −
S18: FREQUENCY TV VOLUME +
S19: STATION TV CHANNEL −
S20: STATION TV CHANNEL +
S21: SURR MODE
S22: 3CH LOGIC
S23: TEST TONE
S24: CENTER MODE (DELAY TIME)
S25: CENTER LEVEL·REAR LEVEL −
S26: CENTER LEVEL·REAR LEVEL +
S27: EFECT LEVEL −
S28: EFECT LEVEL +
S29: FUNCTION
S30: TAPE2 MONITOR
S31: DIRECT V.SEL
S32: SLEEP RETURN
S33: DISC SELECT − (DISC SIDE A) CD/LD
S34: DISC SELECT + (DISC SIDE B)
S35: DECK Ⅰ (VCR CH −) TAPE/VCR
S36: DECK Ⅱ (VCR CH +)
S37: ■ CD/LD
S38: ▶
S39: ◀ TAPE/VCR
S40: ▶
S41: ⏮ (◀◀) CD/LD
S42: ⏭ (▶▶)
S43: ◀◀ TAPE/VCR
S44: ▶▶
S45: POWER CD/LD
S46: ⏸
S47: ■ TAPE/VCR
S48: POWER
S49: ASC1
S50: ASC2
S51: TAPE SELECT TV/VCR

SCH-13


VCC
D1
R1 2
Q1
R2 220
VCC
BATT.+
BATT.−
D2
C6 100/10
R8 100
C2 100/10
C3 0.1 /50
C1 220/25
X1 4M
C4 33p
C5 33p
R3 8.2k
D3
D4
C7 100p
R4 4.7k
R5 33k
IC1
33 SEN5
32 SEN4
31 SEN3
30 SEN2
29 SEN1
28 SEN0
27 SCN9
26 SCN8
25 SCN7
24 SCN6
23 SCN5
34 SEN6
35 SEN7
36 RMOUT
37 VccR
38 Vcc
39 XIN
40 XOUT
41 Vss1
42 REN
43 RMIN
44 CMKOUT
22 SCN4
21 SCN3
20 SCN2
19 SCN1
18 SCN0
17 RESET
16 TEST2
15 TEST1
14 PA7
13 PA6
12 PA5
1 CHKIN
2 PB0/SI
3 PB1/SO
4 PB2/SCK
5 PB3/EXTH
6 Vss2
7 PA0
8 PA1
9 PA2
10 PA3
11 PA4
VCC
R6 100k
D5
IC2
1
2(V.D)
3
S102 (2/2) RESET
C8 0.1/50
S101 VIDEO/AUDIO
VCC
R7 200
D6
SEN0 SEN1 SEN2 SEN3 SEN4 SEN5 SEN6 SEN7
SCN0 S35 S15 S11 S3 S27 S23 S39 S43
SCN1 S34 S14 S6 S7 S26 S22 S38 S47
SCN2 S44 S19 S13 S8 S32 S24 S41 S46
SCN3 S29 S18 S10 S2 S31 S21 S37 S42
SCN4 S36 S16 S12 S4 S28 S20 S40 S51
S102 (1/2)
SCN5 S49 S5 S48 S50 S45
SCN6 S33 S17 S9 S1 S30 S25
S103

IC1	AZC1841
IC2	PST9121N
Q1	2SC3265
D1	SE303A-C
D2, D4, D5	RLS73
D3	SPS-503C-3
D6	SLC-22VR
X1	FCR4.0MC3

SCH-13

SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCH-13

PCB PATTERN

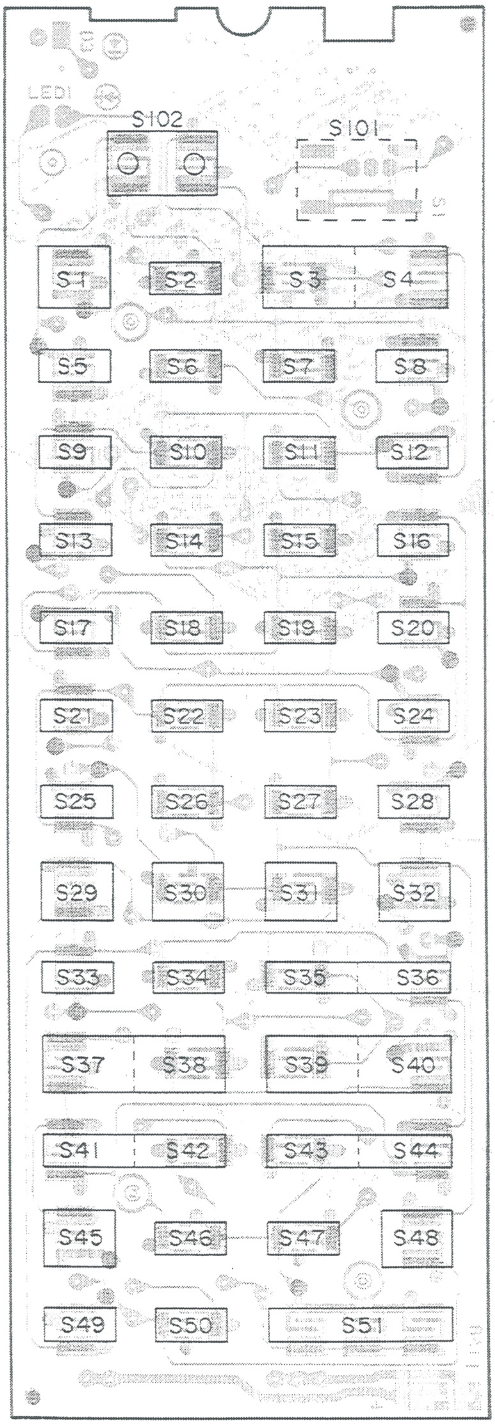
: Indicates a chip resistor.

: Indicates a chip capacitor.

: Indicates a chip transistor.

: Indicates a chip diode.

PCB-12


LED1
S102
S101
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S32
S33
S34
S35
S36
S37
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S41
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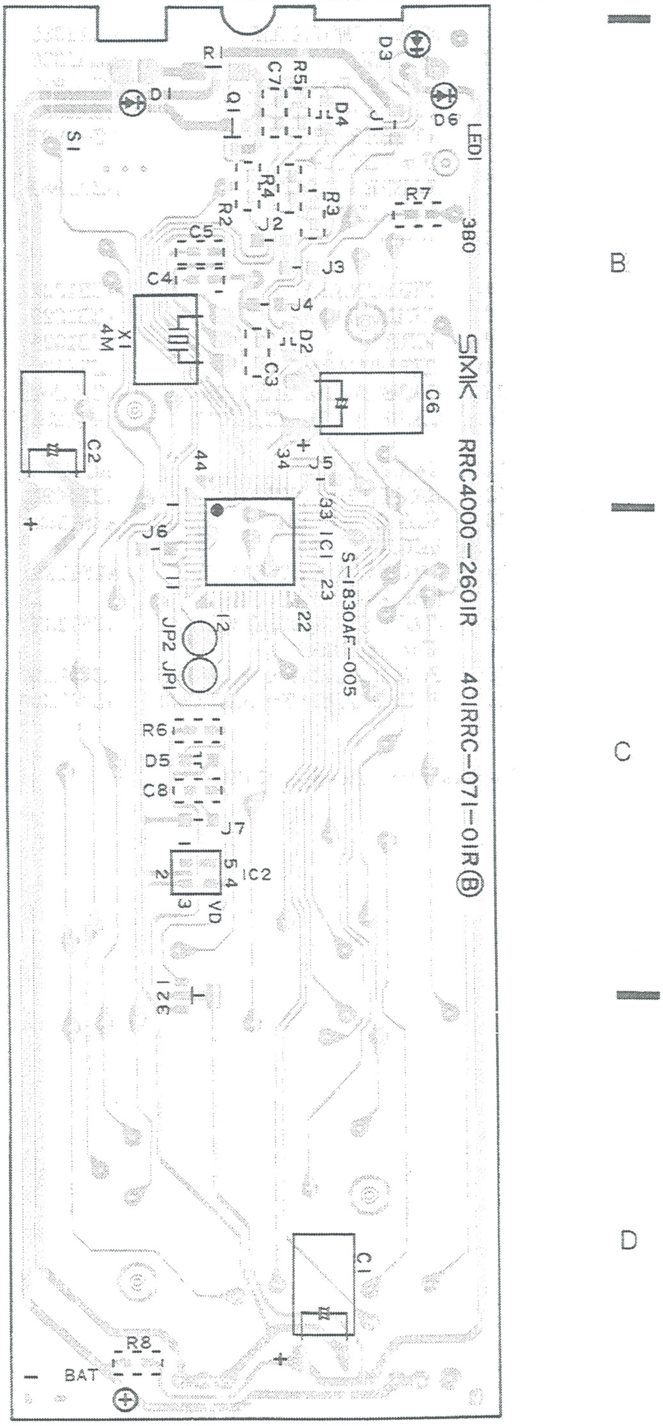
S43
S44
S45
S46
S47
S48
S49
S50
S51


R1
D3
C7
R5
D4
D1
Q1
J1
D6
LED1
S1
R4
R3
R2
R7
J2
C5
3B0
J3
C4
J4
X1
4M
D2
C3
SMK
C6
C2
44
34
J5
33
IC1
S-1830AF-005
RRC4000-2601R
J6
23
22
12
11
JP2
JP1
401RRC-071-01R
R6
D5
C8
J7
5 4
IC2
2
3
VD
IC3
C1
R8
BAT
+
-

10.2 FOR CU–VSX079 (AXD1394) AND CU–VSX080 (AXD1393)

■ EXPLODED VIEW AND PARTS LIST

NOTES:

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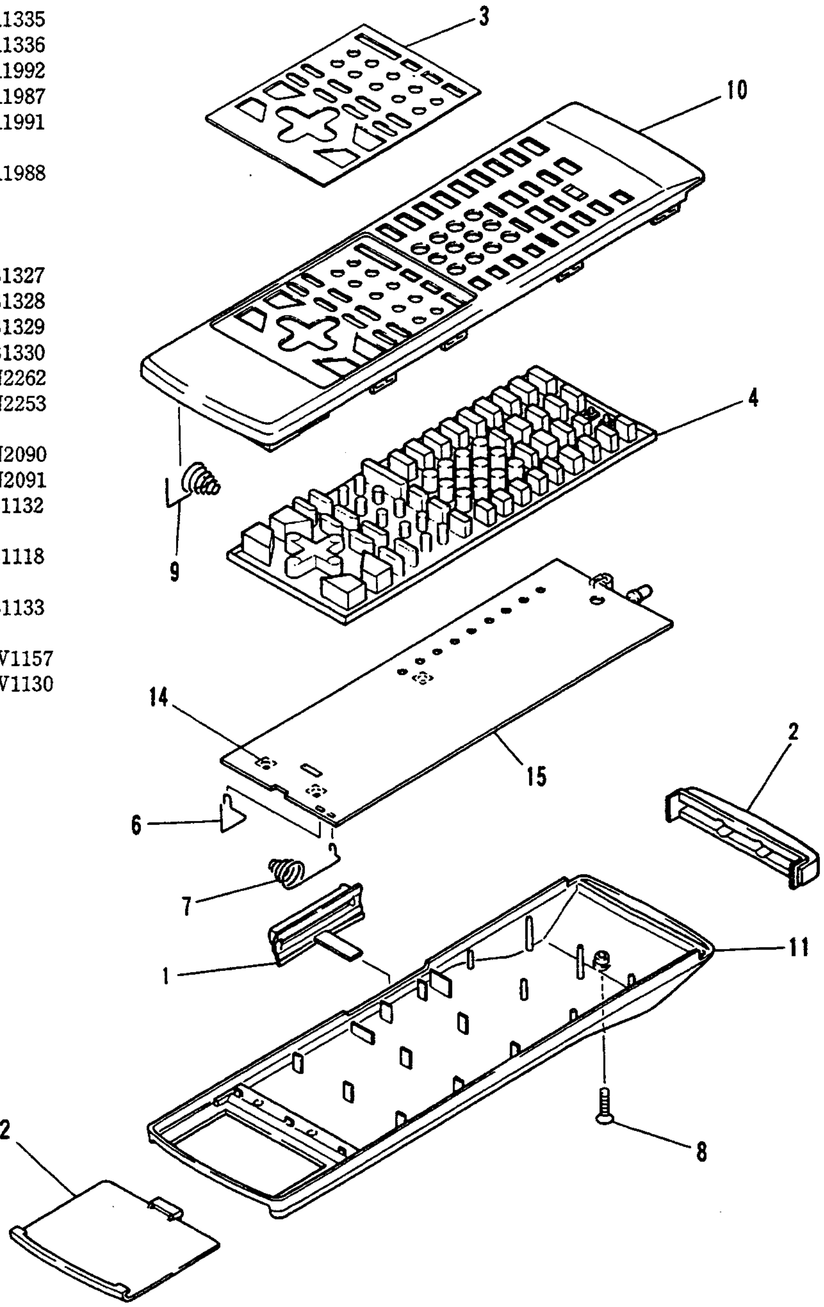
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts List

Mark	No.	Description	Parts No.
	1	MODE CHECK KEY	AZA1335
	2	FILTER	AZA1336
	3	PLATE (For AXD1394)	AZA1992
	3	PLATE (For AXD1393)	AZA1987
	4	RUBBER SHEET (For AXD1394)	AZA1991
	4	RUBBER SHEET (For AXD1393)	AZA1988
	5	....	
	6	TERMINAL (+)	AZB1327
	7	TERMINAL (−)	AZB1328
	8	SCREW	AZB1329
	9	TERMINAL (C)	AZB1330
	10	CASE (A) (For AXD1394)	AZN2262
	10	CASE (A) (For AXD1393)	AZN2253
	11	CASE (B)	AZN2090
	12	BATTERY COVER	AZN2091
	13	SLIDE SW (S101) (AXD1394 only)	AZS1132
	14	TACT SW (S102, S10, S14) (For AXD1394)	AZS1118
	14	TACT SW (S102, S10, S14) (For AXD1393)	AZS1133
NSP	15	P. C. BOARD (For AXD1394)	AZW1157
NSP	15	P. C. BOARD (For AXD1393)	AZW1130

Note: The illustration shows AXD1394.



■ PCB PARTS LIST

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- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
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- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10^1 → 561 ······ RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 × 10^3 → 473 ······ RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ······ RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ······ RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562 × 10^1 → 5621 ······ RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ-COM	ACM001-042
	IC2	IC	AZC1564
	IC3	LOGIC IC	TC74HC138AF-TB
	Q1, 2	CHIP TRANSISTOR	2SC3052E
	Q3, 4	TRANSISTOR	2SD1622
	D1-6	DIODE	DWA010-TE
	D9-17	LED	AZC1573
	D7	LED	SLR-938C
	D8	DIODE	SPS-503C-3
CAPACITORS			
	C1, 2	CERAMIC CAPACITOR	CCDSL330J50
	C3	CERAMIC CAPACITOR	CCDSL221J50
	C4	CERAMIC CAPACITOR	CKDYX104M25
	C5	ELECT. CAPACITOR	CEAS470M10
	C6	CERAMIC CAPACITOR	CKDYB103K50
	C7	ELECT. CAPACITOR	CEAS221M10
	C8	ELECT. CAPACITOR	CEAS4R7M50
RESISTORS			
	R7, 8	CARBON FILM RESISTOR	RD1/4PMFL1R5J
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1	RESONATOR	AZC1570

PCB PATTERN

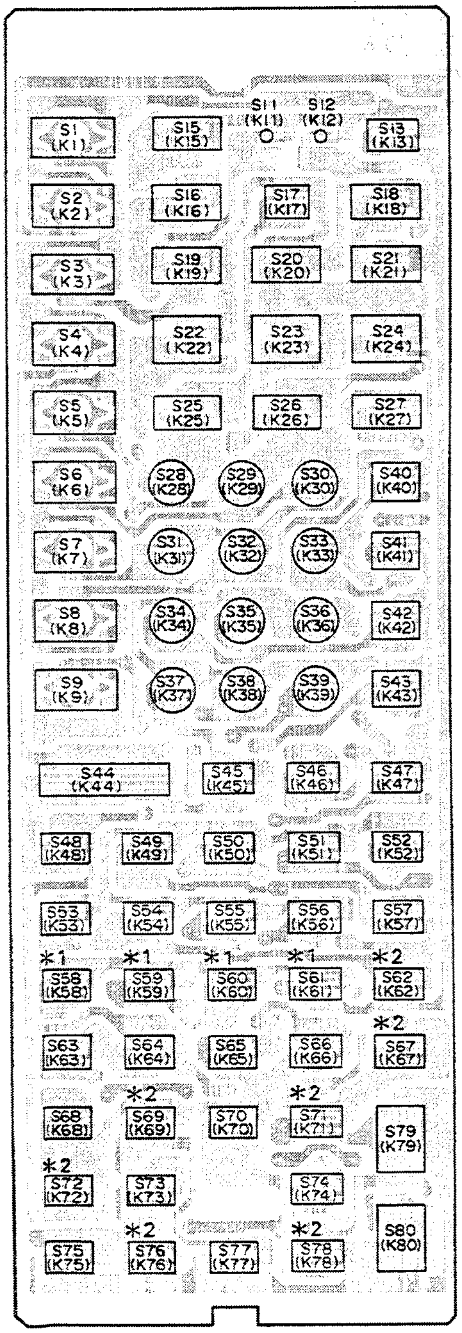
: Indicates a chip resistor.

: Indicates a chip capacitor.

: Indicates a chip transistor.

: Indicates a chip diode.

PCB-13


S1 (K1)
S15 (K15)
S11 (K11)
S12 (K12)
S13 (K13)
S2 (K2)
S16 (K16)
S17 (K17)
S18 (K18)
S3 (K3)
S19 (K19)
S20 (K20)
S21 (K21)
S4 (K4)
S22 (K22)
S23 (K23)
S24 (K24)
S5 (K5)
S25 (K25)
S26 (K26)
S27 (K27)
S6 (K6)
S28 (K28)
S29 (K29)
S30 (K30)
S40 (K40)
S7 (K7)
S31 (K31)
S32 (K32)
S33 (K33)
S41 (K41)
S8 (K8)
S34 (K34)
S35 (K35)
S36 (K36)
S42 (K42)
S9 (K9)
S37 (K37)
S38 (K38)
S39 (K39)
S43 (K43)
S44 (K44)
S45 (K45)
S46 (K46)
S47 (K47)
S48 (K48)
S49 (K49)
S50 (K50)
S51 (K51)
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S53 (K53)
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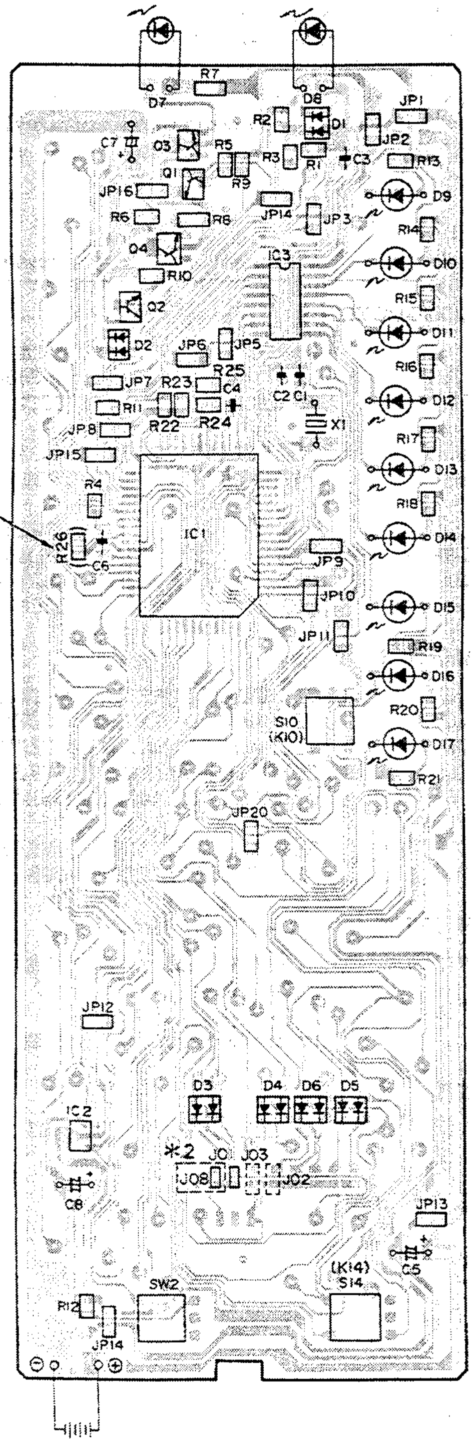
S55 (K55)
S56 (K56)
S57 (K57)
*1 S58 (K58)
*1 S59 (K59)
*1 S60 (K60)
*1 S61 (K61)
*2 S62 (K62)
S63 (K63)
S64 (K64)
S65 (K65)
S66 (K66)
*2 S67 (K67)
S68 (K68)
*2 S69 (K69)
S70 (K70)
*2 S71 (K71)
S79 (K79)
*2 S72 (K72)
S73 (K73)
S74 (K74)
S75 (K75)
*2 S76 (K76)
S77 (K77)
*2 S78 (K78)
S80 (K80)

*1 : AXD1394 only
*2 : AXD1393 only

One time version only


D7
R7
D8
R2
D1
JP1
C7
Q3
R5
R3
R1
C3
JP2
R13
Q1
R9
JP16
D9
R6
R8
JP14
JP3
R14
Q4
D10
IC3
R10
R15
Q2
D11
D2
JP6
JP5
R25
R16
JP7
R23
C4
C2
C1
D12
R11
R22
R24
X1
JP8
R17
JP15
D13
R4
R18
R26
IC1
D14
C6
JP9
JP10
D15
JP11
R19
D16
S10
(K10)
R20
D17
R21
JP20
JP12
D3
D4
D6
D5
IC2
*2
J01
J03
J08
J02
C8
JP13
C5
(K14)
S14
SW2
R12
JP14
⊖
⊕

■ SCHEMATIC DIAGRAM

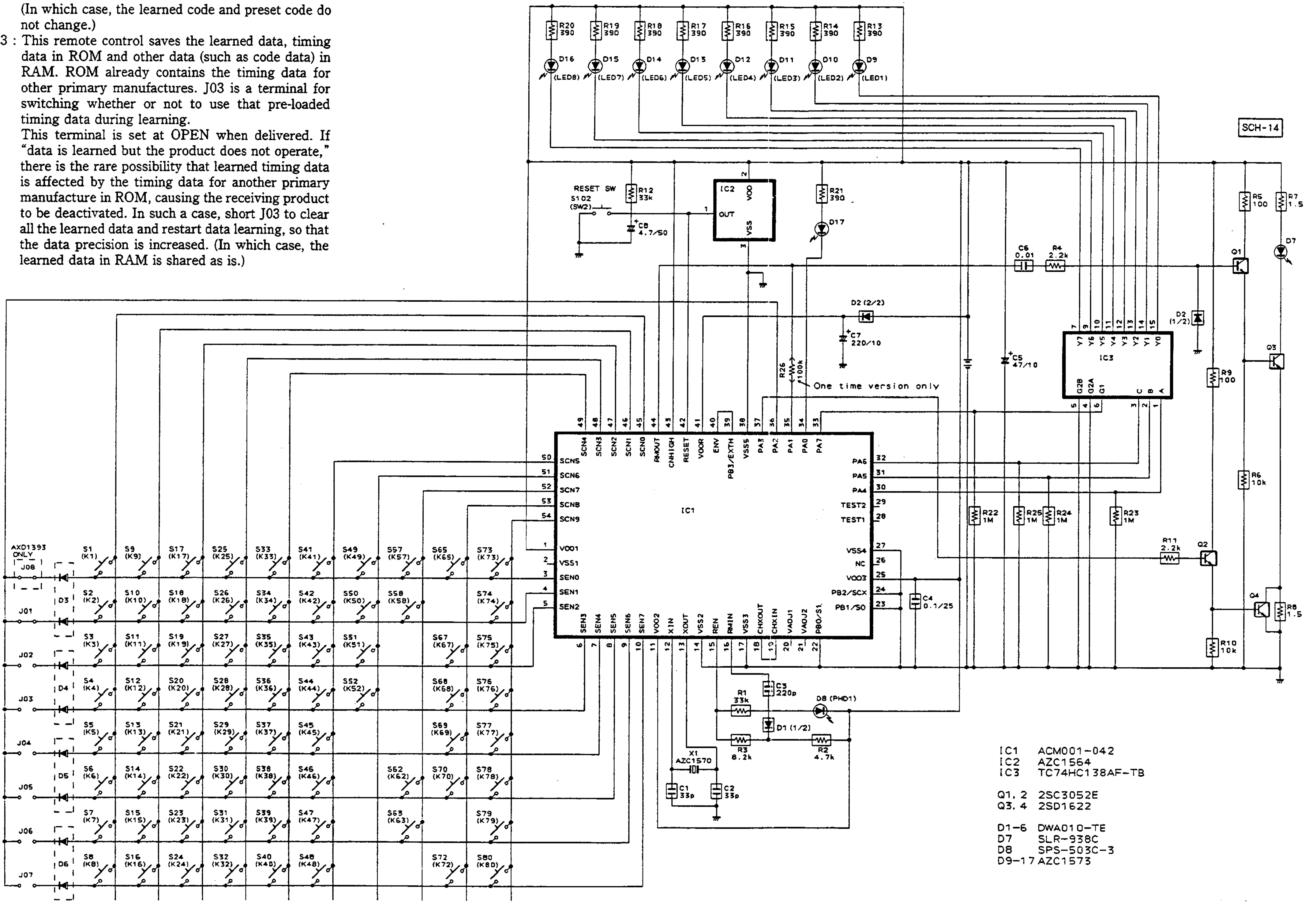
NOTE)

J02 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacture accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

J03 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufactures. J03 is a terminal for switching whether or not to use that pre-loaded timing data during learning.
This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacture in ROM, causing the receiving product to be deactivated. In such a case, short J03 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)

NOTE

-W- : Indicates a chip resistor.
-||- : Indicates a chip capacitor.
: Indicates a chip transistor.
: Indicates a chip diode.


R20 390
R19 390
R18 390
R17 390
R16 390
R15 390
R14 390
R13 390
D16 (LED8)
D15 (LED7)
D14 (LED6)
D13 (LED5)
D12 (LED4)
D11 (LED3)
D10 (LED2)
D9 (LED1)
SCH-14
RESET SW S102 (SW2)
R12 33k
C8 4.7/50
IC2
OUT
VDD
VSS
R21 390
D17
R5 100
R7 1.5
D7
Q1
C6 0.01
R4 2.2k
D2 (2/2)
C7 220/10
D2 (1/2)
R26 100k
One time version only
C5 47/10
IC3
Y7 Y6 Y5 Y4 Y3 Y2 Y1 Y0
G2B G2A G1 C B A
R9 100
Q3
IC1
SCN4 SCN3 SCN2 SCN1 SCN0 RMOUT CNHIGH RESET VOOR ENV PB3/EXTH VSS5 PA3 PA2 PA1 PA0 PA7
SCN5 SCN6 SCN7 SCN8 SCN9 VDD1 VSS1 SEN0 SEN1 SEN2
PA6 PA5 PA4 TEST2 TEST1 VSS4 NC VDD3 PB2/SCX PB1/SO
SEN3 SEN4 SEN5 SEN6 SEN7 VDD2 XIN XOUT VSS2 REN RMIN VSS3 CHKOUT CHKIN VADJ1 VADJ2 PB0/SI
R22 1M
R25 1M
R24 1M
R23 1M
R6 10k
R11 2.2k
Q2
Q4
R8 1.5
R10 10k
C4 0.1/25
C3 220p
D8 (PHD1)
R1 33k
D1 (1/2)
R3 8.2k
R2 4.7k
X1 AZC1570
C1 33p
C2 33p
AXD1393 ONLY
J08
J01
J02
J03
J04
J05
J06
J07
D3
D4
D5
D6
S1 (K1)
S2 (K2)
S3 (K3)
S4 (K4)
S5 (K5)
S6 (K6)
S7 (K7)
S8 (K8)
S9 (K9)
S10 (K10)
S11 (K11)
S12 (K12)
S13 (K13)
S14 (K14)
S15 (K15)
S16 (K16)
S17 (K17)
S18 (K18)
S19 (K19)
S20 (K20)
S21 (K21)
S22 (K22)
S23 (K23)
S24 (K24)
S25 (K25)
S26 (K26)
S27 (K27)
S28 (K28)
S29 (K29)
S30 (K30)
S31 (K31)
S32 (K32)
S33 (K33)
S34 (K34)
S35 (K35)
S36 (K36)
S37 (K37)
S38 (K38)
S39 (K39)
S40 (K40)
S41 (K41)
S42 (K42)
S43 (K43)
S44 (K44)
S45 (K45)
S46 (K46)
S47 (K47)
S48 (K48)
S49 (K49)
S50 (K50)
S51 (K51)
S52 (K52)
S57 (K57)
S58 (K58)
S62 (K62)
S63 (K63)
S65 (K65)
S67 (K67)
S68 (K68)
S69 (K69)
S70 (K70)
S72 (K72)
S73 (K73)
S74 (K74)
S75 (K75)
S76 (K76)
S77 (K77)
S78 (K78)
S79 (K79)
S80 (K80)

IC1	ACM001-042
IC2	AZC1564
IC3	TC74HC138AF-TB
Q1, 2	2SC3052E
Q3, 4	2SD1622
D1-6	DWA010-TE
D7	SLR-938C
D8	SPS-503C-3
D9-17	AZC1573

SWITCHES

S101 : CENT.·BAL./REAR·REAR BAL.
S102 : RESET
S1 : VCR1
S2 : VCR2
S3 : LD
S4 : TV
S5 : CD
S6 : TUNER
S7 : DECK Ⅰ
S8 : DECK Ⅱ
S9 : DAT
S10 : MODE CHECK
S11 : LEARN
S12 : EDIT
S13 : MULTI COMMAND
S14 : M.CLEAR
S15 : POWER
S16 : ⏮
S17 : REC
S18 : ⏭
S19 : ◀◀
S20 : ◀ (SEARCH)
S21 : ▶▶
S22 : ❚❚
S23 : ■
S24 : ▶
S25 : TV/VCR (+10)
S26 : SELECT (DISP)
S27 : TV FUNC (BAND)
S28 : 1
S29 : 2
S30 : 3
S31 : 4
S32 : 5
S33 : 6
S34 : 7
S35 : 8
S36 : 9
S37 : 10/0
S38 : 11/PGM
S39 : 12/CLEAR
S40 : TV VOL/DISC SEL +
S41 : TV VOL/DISC SEL −
S42 : FREQ/CH (∧)
S43 : FREQ/CH (V)
S44 : RECEIVER POWER
S45 : AUTO SOURCE CONTROL 1
S46 : AUTO SOURCE CONTROL 2
S47 : SLEEP
S48 : TAPE1
S49 : TAPE2
S50 : PHONO
S51 : TUNER
S52 : CD
S53 : VCR1
S54 : VCR2
S55 : VIDEO
S56 : TV
S57 : LD
S58 : RETURN
S59 : DIRECT
S60 : V.SEL
S61 : S.BASS
(AXD1394 ONLY)
S62 : S.BASS (AXD1393 ONLY)
S63 : SURR.MODE (FOR AXD1394)
S63 : RETURN (FOR AXD1393)
S64 : 3CH LOGIC (FOR AXD1394)
S64 : DIRECT (FOR AXD1393)
S65 : DELAY TIME (FOR AXD1394)
S65 : V.SEL (FOR AXD1393)
S66 : MUTING (FOR AXD1394)
S66 : DISPLAY (FOR AXD1393)
S67 : MUTING (AXD1393 ONLY)
S68 : GRAPHIC (FOR AXD1394)
S68 : SURR.MODE (FOR AXD1393)
S69 : 3CH LOGIC (AXD1393 ONLY)
S70 : ▲ (FOR AXD1394)
S70 : CENT.MODE (FOR AXD1393)
S71 : TEST TONE (AXD1393 ONLY)
S72 : REAR LEVEL + (AXD1393 ONLY)
S73 : ◀ (FOR AXD1394)
S73 : CENTER LEVEL + (FOR AXD1393)
S74 : ▶ (FOR AXD1394)
S74 : EFFECT LEVEL + (FOR AXD1393)
S75 : ENTER (FOR AXD1394)
S75 : REAR LEVEL − (FOR AXD1393)
S76 : CENTER LEVEL − (AXD1393 ONLY)
S77 : ▼ (FOR AXD1394)
S77 : DELAY TIME (FOR AXD1393)
S78 : EFFECT LEVEL − (AXD1393 ONLY)
S79 : MASTER VOLUME +
S80 : MASTER VOLUME −

SCH-14

SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]

SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]

SCH-14

11. FOR VSX–D903S/KC, SD, VSX–D933S/HL, VSX–D603S/SD, VSX–D613S/KC AND VSX–D633S/HL

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 ………… RD1/8PM$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47×10^3 → 473 ………… RD1/4PS$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → 0R5 ………… RN2H$\boxed{0}\boxed{R}\boxed{5}$K
1 Ω → 010 ………… RS1P$\boxed{0}\boxed{1}\boxed{0}$K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 ………… RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

11.1 CONTRAST OF MISCELLANEOUS PARTS FOR VSX–D903S/KC, SD AND VSX–D933S/HL

VSX-D903S/KC, SD, VSX-D933S/HL and VSX-D903S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1789	AWK1789	AWK1790	AWK1791	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5404	AWZ5404	AWZ5404	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5405	AWZ5409	AWZ5411	
NSP	R. C. SP ASSY	AWZ5408	AWZ5408	AWZ5408	AWZ5726	
	SW ASSY	AWZ5412	AWZ5412	AWZ5412	• • • • •	
NSP	SMALL SIGNAL ASSY	AWK1796	AWK1796	AWK1796	AWK1866	
	TONE ASSY	AWZ5420	AWZ5420	AWZ5420	AWZ5723	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
⚠	Capacitor (C1 : 0.1 μ, 250V)	• • • • •	• • • • •	ACE-507	• • • • •	* 1
⚠	Power transformer (T1) (AC120V)	ATS1545	ATS1545	• • • • •	• • • • •	
⚠	Power transformer (T1) (AC110V/120-127V/220V/240V)	• • • • •	• • • • •	ATS1546	• • • • •	
⚠	Power transformer (T1) (AC220-230V/240V)	• • • • •	• • • • •	• • • • •	ATS1548	
⚠	Voltage selector (S1) (AC110V/120-127V/220V/240V)	• • • • •	• • • • •	AKX-507	• • • • •	* 1
⚠	Voltage selector (S2) (AC110V, 120-127V/220V, 240V)	• • • • •	• • • • •	AKX1004	• • • • •	* 1
⚠	Slide switch (S3) (CHANNEL STEP/FM DE-EMPHASIS)	• • • • •	• • • • •	ASH1044	• • • • •	* 1
⚠	Fuse holder	• • • • •	• • • • •	AKR1005	• • • • •	* 1
⚠	Fuse (10A, 125V) (FU1)	AEK1035	AEK1035	• • • • •	• • • • •	
⚠	Fuse (T4A, 250V) (FU1)	• • • • •	• • • • •	• • • • •	AEK-514	
⚠	Fuse (5A, 125V) (FU1, FU2)	• • • • •	• • • • •	AEK-126	• • • • •	* 1
⚠	Fuse (4A, 125V) (FU3, FU4)	AEK-125	AEK-125	AEK-125	• • • • •	
⚠	Fuse (T3.15A, 250V) (FU3, FU4)	• • • • •	• • • • •	• • • • •	AEK-513	
⚠	Fuse (1.6A, 125V) (FU5, FU6)	AEK-121	AEK-121	AEK-121	• • • • •	
⚠	Fuse (T1.6A, 250V) (FU5, FU6)	• • • • •	• • • • •	• • • • •	AEK-510	
⚠	AC power cord	ADG1146	ADG1146	ADG1051	ADG1049	
	Rear panel	ANC2197	ANC2197	ANC2198	ANC2199	

* 1 : Refer to the section " 3.2 INTERIOR ".

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	Fuse holder fitting metal	• • • • •	• • • • •	ANG-528	• • • • •	* 1
NSP	Earth plate	• • • • •	• • • • •	ANK1257	ANK1257	* 1
⚠	AC cord stopper	AEP-113	AEP-113	AEC-882	AEC-882	
NSP	Barrier	• • • • •	• • • • •	AEC1412	• • • • •	* 1
	65 label	ORW1069	• • • • •	• • • • •	• • • • •	
	Screw	VMZ26P040FZK	VMZ26P040FZK	VMZ26P040FZK	• • • • •	
	Front panel	AMB2492	AMB2492	AMB2492	AMB2510	
	Operating instructions (English)	ARB1489	ARB1489	ARB1489	• • • • •	
	Operating instructions (English, Chinese)	• • • • •	• • • • •	• • • • •	ARE1319	
	Operating instructions (Spanish, Chinese)	• • • • •	• • • • •	ARC1479	• • • • •	
	Operating instructions (French)	• • • • •	ARC1478	• • • • •	• • • • •	
	Packing case	AHD2766	AHD2766	AHD2767	AHD2768	

* 1 : Refer to the section " 3.2 INTERIOR ".

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114	CCCSL150K500	CCCSL330K500	
	C115, C116	• • • • •	CCCSL330K500	
	C125, C126, C173, C214	CFTXA473J50	CFTXA104J50	
	C127, C128, C174, C215	• • • • •	CFTXA104J50	
	C167, C208	CCCSL220K500	CCCSL470K500	
	C168, C209	• • • • •	CCCSL470K500	
	R121, R122, R171	RD1/4PMF680J	RD1/4PMFL680J	
	R129-R132, R175, R176	RD1/4PMF101J	RD1/4PMFL101J	
	R139-R142, R180, R181, R220, R221	RD1/4PMF4R7J	RD1/4PMFL4R7J	
	R147, R148, R184, R223	RD1/4PMF100J	RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5404 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5404	AWZ5410	
	Q361	XDC143ES	• • • • •	
	D352	D5SB20F	• • • • •	
	D361	HSS104-02	• • • • •	
	RY361, RY362	ASR1027	• • • • •	
	C352 (0.01 μ, AC250V)	ACG1005	• • • • •	
	R361	RS1PMF471J	• • • • •	

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
⚠	T51	ATT1011	ATT1193	ATT1193	
⚠	R52 (2.2M Ω , 1/2W)	ACN-208	• • • • •	• • • • •	
⚠	AC OUTLET (3P)	AKP1053	AKP1053	• • • • •	

R. C. SP ASSY

AWZ5726 and AWZ5408 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5408	AWZ5726	
	R271	RD1/8PM222J	RD1/8PM332J	

TONE ASSY

AWZ5723 and AWZ5420 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5420	AWZ5723	
	R603, R604	RS1/10S562J	RS1/10S113J	
	R613, R614	RD1/8PM334J	RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574	RD1/8PM562J	RD1/8PM113J	
	R5583, R5584	RD1/8PM334J	RD1/8PM624J	

11.2 CONTRAST OF MISCELLANEOUS PARTS FOR VSX–D603S/SD, VSX–D613S/KC AND VSX–D633S/HL

VSX - D603S/SD, VSX - D613S/KC, VSX - D633S/HL and VSX - D603S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX - D603S /KU	VSX - D603S /SD	VSX - D613S /KC	VSX - D633S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1794	AWK1795	AWK1794	AWK1793	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5437	AWZ5437	AWZ5437	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5409	AWZ5405	AWZ5411	
NSP	R. C. SP ASSY	AWZ5414	AWZ5414	AWZ5414	AWZ5727	
NSP	SMALL SIGNAL ASSY	AWK1799	AWK1799	AWK1799	AWK1867	
	TONE ASSY	AWZ5426	AWZ5426	AWZ5426	AWZ5725	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
⚠	Capacitor (C1 : 0.1 μ, 250V)	• • • • •	ACE - 507	• • • • •	• • • • •	∗ 1
⚠	Power transformer (T1) (AC120V)	ATS1545	• • • • •	ATS1545	• • • • •	
⚠	Power transformer (T1) (AC110V/120 - 127V/220V/240V)	• • • • •	ATS1546	• • • • •	• • • • •	
⚠	Power transformer (T1) (AC220 - 230V/240V)	• • • • •	• • • • •	• • • • •	ATS1548	
⚠	Voltage selector (S1) (AC110V/120 - 127V/220V/240V)	• • • • •	AKX - 507	• • • • •	• • • • •	∗ 1
⚠	Voltage selector (S2) (AC110V, 120 - 127V/220V, 240V)	• • • • •	AKX1004	• • • • •	• • • • •	∗ 1
⚠	Slide switch (S3) (CHANNEL STEP/FM DE - EMPHASIS)	• • • • •	ASH1044	• • • • •	• • • • •	∗ 1
⚠	Fuse holder	• • • • •	AKR1005	• • • • •	• • • • •	∗ 1
⚠	Fuse (10A, 125V) (FU1)	AEK1035	• • • • •	AEK1035	• • • • •	
⚠	Fuse (T4A, 250V) (FU1)	• • • • •	• • • • •	• • • • •	AEK - 514	
⚠	Fuse (5A, 125V) (FU1, FU2)	• • • • •	AEK - 126	• • • • •	• • • • •	∗ 1
⚠	Fuse (4A, 125V) (FU3, FU4)	AEK - 125	AEK - 125	AEK - 125	• • • • •	
⚠	Fuse (T3.15A, 250V) (FU3, FU4)	• • • • •	• • • • •	• • • • •	AEK - 513	
⚠	Fuse (1.6A, 125V) (FU5, FU6)	AEK - 121	AEK - 121	AEK - 121	• • • • •	
⚠	Fuse (T1.6A, 250V) (FU5, FU6)	• • • • •	• • • • •	• • • • •	AEK - 510	
⚠	AC power cord	ADG1146	ADG1051	ADG1146	ADG1049	
	Rear panel	ANC2193	ANC2194	ANC2193	ANC2235	
NSP	Fuse holder fitting metal	• • • • •	ANG - 528	• • • • •	• • • • •	∗ 1
⚠	AC cord stopper	AEP - 113	AEC - 882	AEP - 113	AEC - 882	
NSP	Barrier	• • • • •	AEC1412	• • • • •	• • • • •	∗ 1
	65 label	ORW1069	• • • • •	• • • • •	• • • • •	
	Screw	• • • • •	VMZ26P040FZK	• • • • •	• • • • •	∗ 1 (No.106)
	Front panel	AMB2488	AMB2488	AMB2491	AMB2518	
	Operating instructions (English)	ARB1477	ARB1477	• • • • •	• • • • •	
	Operating instructions (English, French)	• • • • •	• • • • •	ARE1310	• • • • •	
	Operating instructions (English, Chinese)	• • • • •	• • • • •	• • • • •	ARE1320	
	Operating instructions (Spanish, Chinese)	• • • • •	ARC1468	• • • • •	• • • • •	
	Remote control unit (CU - VSX084)	AXD1385	AXD1385	• • • • •	AXD1385	
	Remote control unit (CU - VSX080)	• • • • •	• • • • •	AXD1393	• • • • •	
NSP	Alkaline (LR03, AAA)	AEX1006	AEX1006	• • • • •	AEX1006	
NSP	Alkaline (LR6, AA)	• • • • •	• • • • •	AEX1007	• • • • •	
	Packing case	AHD2753	AHD2754	AHD2755	AHD2770	
	Battery cover (For remote control unit)	AZN2256	AZN2256	AZN2091	AZN2256	

∗ 1 : Refer to the section " 3.2 INTERIOR ".

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114	CCCSL150K500	CCCSL330K500	
	C115, C116	• • • • •	CCCSL330K500	
	C125, C126, C173, C214	CFTXA473J50	CFTXA104J50	
	C127, C128, C174, C215	• • • • •	CFTXA104J50	
	C167, C208	CCCSL220K500	CCCSL470K500	
	C168, C209	• • • • •	CCCSL470K500	
	R121, R122, R171	RD1/4PMF680J	RD1/4PMFL680J	
	R129-R132, R175, R176	RD1/4PMF101J	RD1/4PMFL101J	
	R139-R142, R180, R181, R220, R221	RD1/4PMF4R7J	RD1/4PMFL4R7J	
	R147, R148, R184, R223	RD1/4PMF100J	RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5437 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5437	AWZ5410	
	Q361	XDC143ES	• • • • •	
	D352	D5SB20F	• • • • •	
	D361	HSS104-02	• • • • •	
	RY361, RY362	ASR1027	• • • • •	
	C352 (0.01 μ, AC250V)	ACG1005	• • • • •	
	R361	RS1PMF471J	• • • • •	

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
⚠	T51	ATT1011	ATT1193	ATT1193	
⚠	R52 (2.2M Ω, 1/2W)	ACN-208	• • • • •	• • • • •	
⚠	AC OUTLET (3P)	AKP1053	AKP1053	• • • • •	

R. C. SP. ASSY

AWZ5727 and AWZ5414 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5414	AWZ5727	
	R271	RD1/8PM222J	RD1/8PM332J	

TONE ASSY

AWZ5725 and AWZ5426 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5426	AWZ5725	
	R603, R604 R613, R614	RS1/10S562J RD1/8PM334J	RS1/10S113J RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

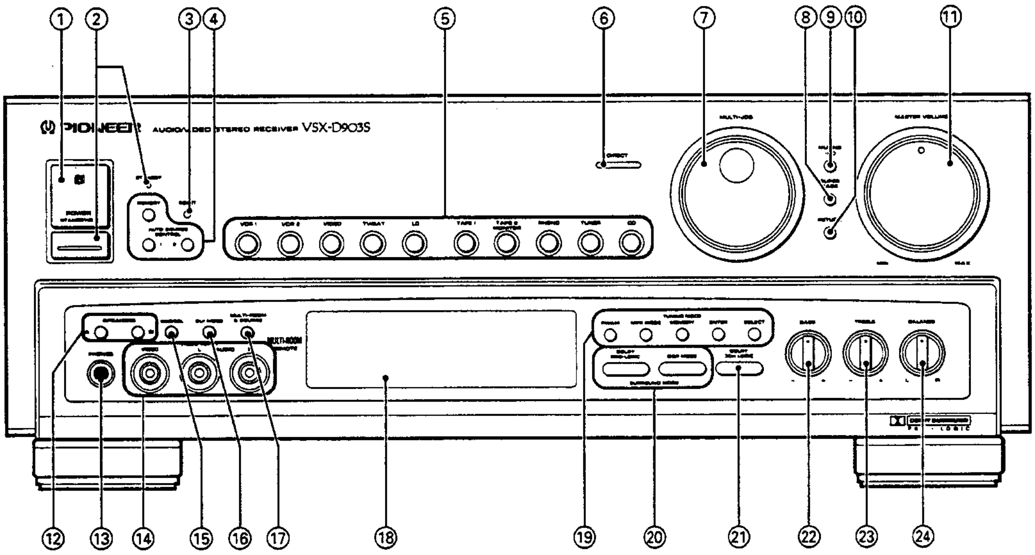
Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574 R5583, R5584	RD1/8PM562J RD1/8PM334J	RD1/8PM113J RD1/8PM624J	

12. PANEL FACILITIES

12.1 FRONT PANEL FACILITIES

■ FOR VSX–D903S, VSX–53 AND VSX–D703S MODELS

•Illustration shows VSX–D903S model.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PIONEER
VSX-D903S
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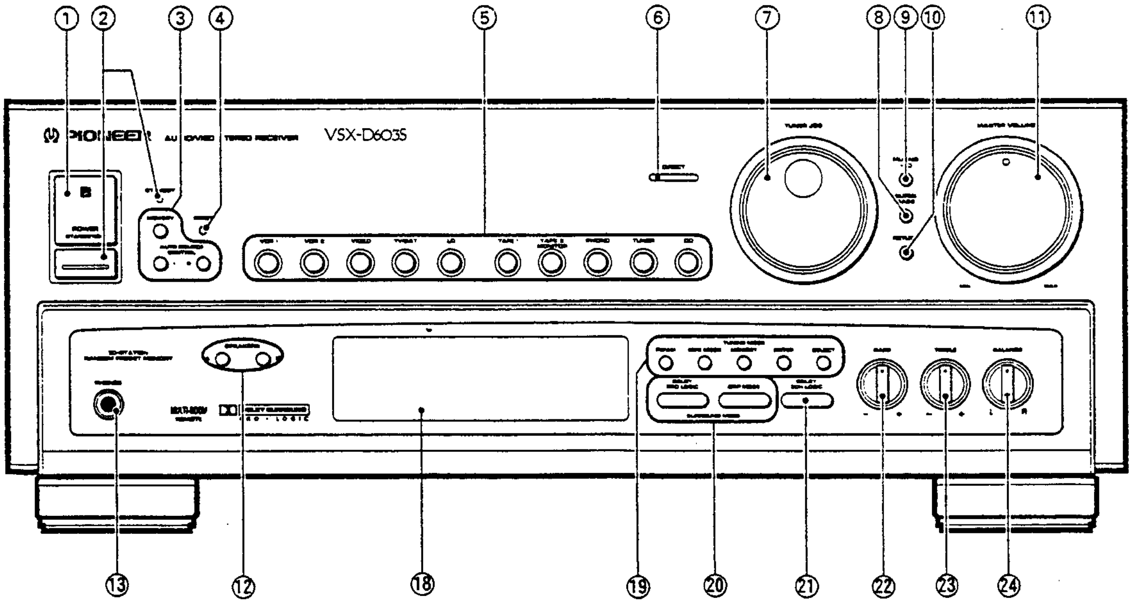
■ FOR VSX–D603S MODEL


①
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PIONEER
VSX-D603S
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① Remote sensor

② POWER STANDBY/ON switch/STANDBY indicator

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.
STANDBY : When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The STANDBY indicator lights when the power is STANDBY, and goes out during ON.

[Timer ON/OFF possible]
When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

NOTE:
When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

③ RESET button

Use this when normal operation becomes impossible because of external influences such as static electricity or lightning, or when operation is impossible even when operation buttons are pressed. Press this button to return to normal operating conditions. (The input selector automatically switches to TUNER, and SPEAKERS A and B switch off.)
If you press this button when the power is ON, the unit switches to POWER STANDBY.

④ AUTO SOURCE CONTROL/MEMORY buttons

1, 2 buttons:
These buttons are for memorizing and recalling your current settings. Both 1 and 2 can be used to memorize settings. If you connect another component, such as a CD player, to the CONTROL OUT jack on the rear panel, the signals to switch power on and start play are also transmitted.
MEMORY:
Use when memorizing settings to a 1, 2 button.

⑤ Input selector buttons

VCR 1 : Press when performing playback on a first VCR unit.
VCR 2 : Press when performing playback on a second VCR unit.
VIDEO : Press when performing playback on a VCR connected to VIDEO INPUT jacks on the front panel.
TV/SAT : Press when using a TV tuner connected to the TV/SAT jacks.
LD : Press when performing playback on an LD player.
TAPE 1 : Press when performing playback on a cassette deck.
TAPE 2 MONITOR : Press when performing playback on a second cassette deck and when monitoring recording.
PHONO : Press when playing records on turntable.
TUNER : Press when listening to radio broadcasts.
CD : Press when playing compact discs on a CD player.

⑥ DIRECT button

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry.
The surround mode, super bass, and rear and center speakers are automatically switched off.

⑦ MULTI-JOG (VSX-D903S model only)

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

⑦ TUNER JOG
(VSX-53, VSX-D703S and VSX-D603S models only)

Use to tune into a broadcast.

⑧ SUPER BASS button

Switch on when you want to boost bass. This does not operate when the DIRECT button is on.

⑨ MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

⑩ RETURN button

Press this button to return the receiver into the initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

- TAPE 2 MONITOR .... OFF
- FUNCTION .... TUNER
- SURROUND MODE ...... OFF
- V-SIGNAL SELECTOR .... OFF
- MUTING .... OFF

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button		After pressing
Both A and B are off	→	Only A is on
Only A is on	→	No change
Only B is on	→	Both A and B are on
Both A and B are on	→	No change

NOTE:
Press the RETURN button, and the frequency last selected is received. If reception of a station is not possible with that frequency, the mode automatically switches to AUTO TUNING.

⑪ MASTER VOLUME control

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

⑫ SPEAKERS buttons (A, B)

ON/OFF switches for the A and B speaker systems. (Indicator in the display section lights.)

⑬ PHONES jack

Connect the plug on your headphones to this jack. Set the surround mode and all SPEAKERS A and B switches to OFF if you want to cut the sound from speakers and listen to it only through the headphones.

⑭ VIDEO INPUT jacks

(VSX–D903S, VSX–53 and VSX–D703S models only)

VIDEO components such as a VCR or TV camera, etc. can be connected.

⑮ REC SEL (Recording Selector) button

You can select the component to be recorded from, on VCR 1 without using the input selector.
Each time you press the REC SEL button, the components change in the following order.

TAPE 1 → PHONO → TUNER → CD → VCR 2 → VIDEO
off ← LD ← TV/SAT ←

When the REC SELECTOR has been through all the components once, REC SELECTOR switches off.

⑯ GUI MODE button (VSX–D903S model only)

Switches GUI MODE on and off.

⑯ OSD SUB ROOM button (VSX–53 model only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.
You can watch the OSD(On Screen Display)on a TV in the sub room.

⑰ MULTI-ROOM & SOURCE button

(VSX–D903S and VSX–53 models only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.
When this button is on, the source selected with the input selector at that time is set to the Sub room function. The selected sub-function's sound is output through SUB ROOM SPEAKERS, and the video signal is output through the MULTI-ROOM VIDEO OUT jack. If you install speaker systems connected to the MULTI-ROOM SPEAKERS terminals in a different room, you can enjoy different sources in two different rooms with a single main unit.

⑱ Display section

⑲ TUNING MODE buttons

FM/AM : Use this to switch between FM and AM frequency band reception.

MPX MODE : Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

Auto stereo mode:
Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

Monaural mode:
When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:
This button has no effect on reception of AM broadcasts.

MEMORY : Press this button to switch to the frequency preset mode.

ENTER : If you press this when in the frequency preset mode, the displayed frequency is memorized in the selected station. (Frequency and station indications flash and then light.)

SELECT : Press this to switch to the station mode. Then you can turn the MULTI-JOG to select a station.

⑳ SURROUND MODE buttons

DOLBY PRO-LOGIC:
Switches DOLBY PRO-LOGIC SURROUND on and off.

DSP MODE:
Each time you press it, the mode and the display indications change as follows:

→ JAZZ → DANCE → SIMULATED SURROUND
off ← PRO LOGIC THEATER ← HALL ←
(2CH STEREO)

㉑ DOLBY 3CH LOGIC button

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the DOLBY SURROUND mark.

㉒ BASS control

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass. This does not operate when the DIRECT button is on.

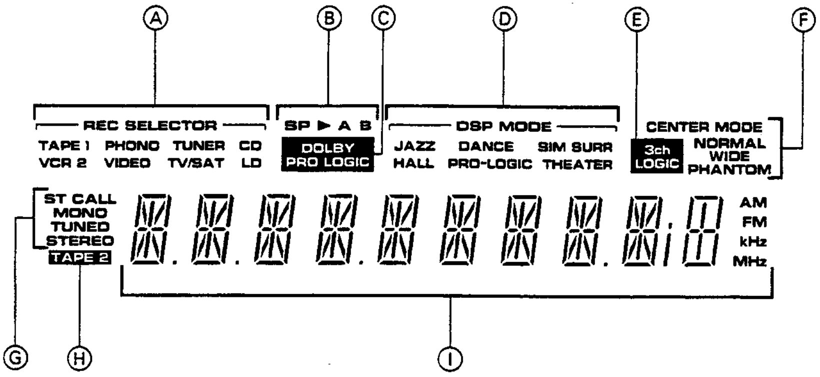
㉓ TREBLE control

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble. This does not operate when the DIRECT button is on.

㉔ BALANCE control

Use to adjust the sound volume balance between left and right speakers. This does not operate when the DIRECT button is on.
L: Decrease the sound on the right side.
R: Decrease the sound on the left side.
Usually, left and right volume levels should be the same.

DISPLAY SECTION


Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
REC SELECTOR
TAPE 1
PHONO
TUNER
CD
VCR 2
VIDEO
TV/SAT
LD
SP ▶ A B
DOLBY
PRO LOGIC
DSP MODE
JAZZ
DANCE
SIM SURR
HALL
PRO-LOGIC
THEATER
3ch
LOGIC
CENTER MODE
NORMAL
WIDE
PHANTOM
ST CALL
MONO
TUNED
STEREO
TAPE 2
AM
FM
kHz
MHz
Ⓖ
Ⓗ
Ⓘ

Ⓐ REC SELECTOR indicators

The recording source selected with the REC SEL button is usually displayed.

Ⓑ SP (SPEAKERS) A, B indicators

Shows which speaker system (or systems) are switched on.

Ⓒ DOLBY PRO LOGIC indicator

Ⓓ DSP MODE indicators

Ⓔ DOLBY 3CH LOGIC indicator

Ⓕ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC operation.

Ⓖ Tuning indicators

ST (STATION) CALL	: Press the SELECT button to switch to the station mode, and this indicator lights.
MONO	: Lights up when the FM MONO mode is selected with the MPX MODE button.
TUNED	: Lights up when a station is tuned.
STEREO	: Lights up when a stereo FM broadcast is being received.

Ⓗ TAPE 2 indicator

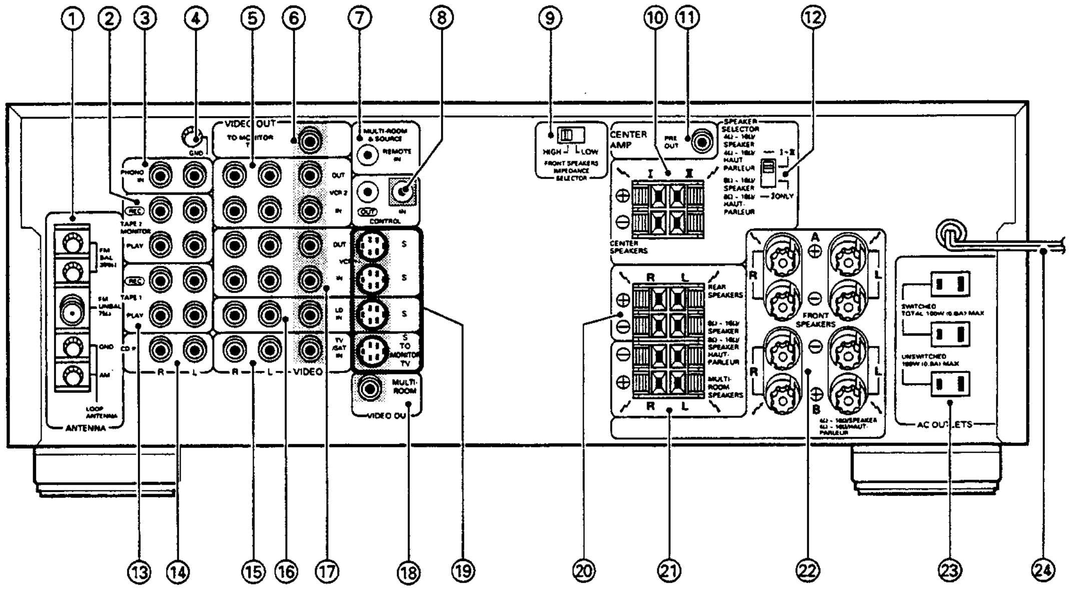
Lights up when the input selector is set to TAPE 2 MONITOR on.

Ⓘ CHARACTER display

12.2 REAR PANEL FACILITIES

■ FOR VSX–D903S AND VSX–53 MODELS

•Illustration shows VSX–D903S U.S. and Canadian model.



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑥ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2, TV, VIDEO (front) or LD player connected to this unit.

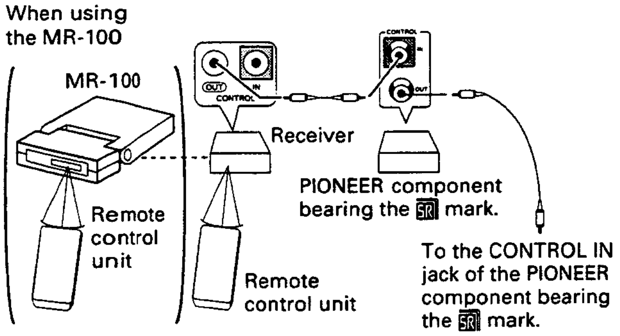
⑦ MULTI-ROOM & SOURCE REMOTE IN jack

When using the MULTI-ROOM & SOURCE function, connect to the separately sold MR-100 Multi-Room remote control unit.

⑧ CONTROL IN/OUT jacks

IN	: Connect this jack to other PIONEER components (main unit or remote control unit) when using those components to control this unit.
OUT	: Connect this jack to other PIONEER components when using the remote control of this unit to control the other components.

NOTE:
The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.


When using the MR-100
MR-100
OUT
IN
CONTROL
CONTROL
OUT
Receiver
PIONEER component bearing the SR mark.
Remote control unit
Remote control unit
To the CONTROL IN jack of the PIONEER component bearing the SR mark.

⑨ FRONT SPEAKERS IMPEDANCE SELECTOR switch

Set this switch to match the nominal impedance of your front speakers.

NOTE:
Turn off the receiver's power before changing the impedance selector switch setting.

⑩ CENTER SPEAKERS terminals

Connect the center speaker to these terminals.
You can connect two speakers for dual center, so you can locate speakers on both sides of the TV.

Speaker impedance:
Refer to ⑫ CENTER SPEAKER SELECTOR switch.

NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

⑪ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑫ CENTER SPEAKER SELECTOR switch

This switch changes the speaker impedance for when only one center speaker is connected, or two speakers are connected.

When only one speaker is connected:
Be sure to set the switch to "I ONLY" (down side), and always connect a speaker with an impedance of 8 Ω — 16 Ω to the I terminal.

When two speakers are connected:
Be sure to set the switch to "I + II" (up side), and always use speakers with an impedance of 4 Ω — 16 Ω.

NOTE:
Switch the CENTER SPEAKER SELECTOR when the unit power supply is at STANDBY. Do not switch the selector when the power supply is at ON.

⑬ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording
The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback
Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑭ CD input jacks

Connect to the output jacks of a compact disc player.

⑮ TV/SAT (Satellite) jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]
Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]
Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑯ LD jacks

[VIDEO IN]
When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L,R)]
When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑰ VCR 1 jacks

[VIDEO OUT]
When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]
When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]
When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]
When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑱ MULTI-ROOM VIDEO OUT jack

Connect the monitor TV for use in the Sub room.

⑲ S (connector) video jacks

When used in conjunction with a VCR, Video disc player (LaserDisc player), or TV monitor equipped with S video jacks, connect to these jacks.

⑳ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω — 16 Ω.

㉑ MULTI-ROOM SPEAKERS terminals

Connect to the Multi-room speakers.

Speaker impedance

Connect speaker systems with a nominal impedance of between 8 Ω and 16 Ω.

㉒ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

Speaker impedance:

Refer to ⑨ FRONT SPEAKERS IMPEDANCE SELECTOR switch.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

㉓ AC OUTLETS

[U.S. and Canadian models]

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

[Multi-voltage model]

SWITCHED TOTAL 100 W MAX

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

UNSWITCHED 100 W MAX

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

NOTE:

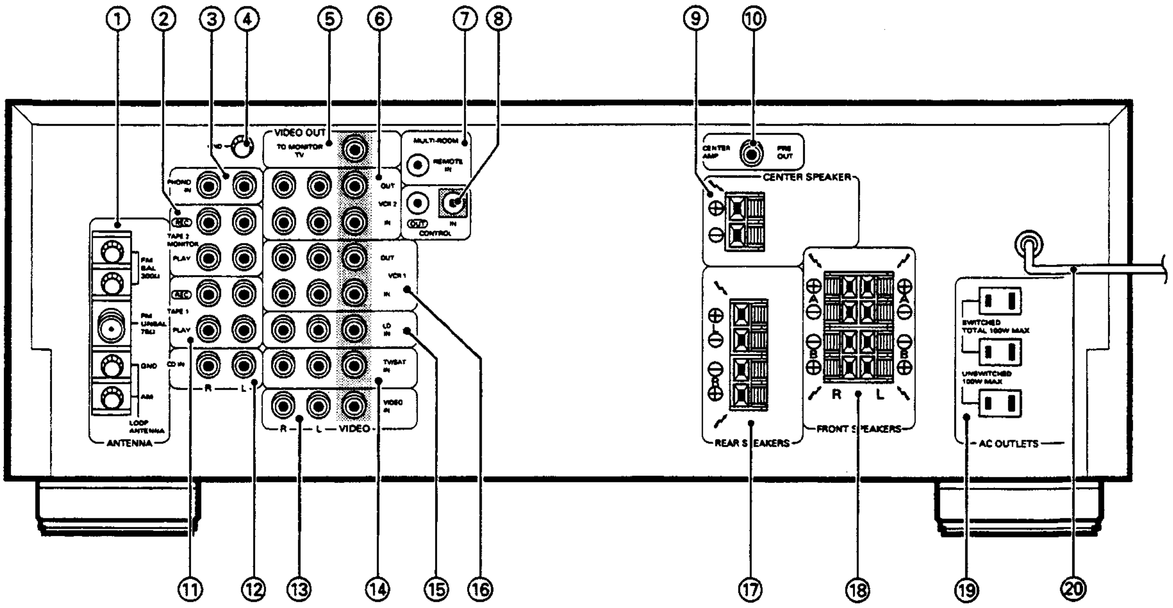
- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.*
  This can cause the receiver to malfunction.

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

㉔ Power cord

■ FOR VSX-D703S AND VSX-D603S MODELS

•Illustration shows VSX-D603S U.S. model.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⑦
⑧
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⑩
VIDEO OUT
TO MONITOR TV
MULTI-ROOM
REMOTE IN
CONTROL
PHONO IN
TAPE 2 MONITOR
PLAY
REC
TAPE 1
CD IN
OUT
VCR 2
IN
OUT
VCR 1
IN
LD IN
TV/SAT IN
VIDEO IN
R
L
VIDEO
FM BAL 300Ω
FM UNBAL 75Ω
GND
AM
LOOP ANTENNA
ANTENNA
CENTER AMP
PRE OUT
CENTER SPEAKER
A
B
R
L
REAR SPEAKERS
FRONT SPEAKERS
SWITCHED TOTAL 100W MAX
UNSWITCHED 100W MAX
AC OUTLETS
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⑮
⑯
⑰
⑱
⑲
⑳

① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2 or LD player connected to this unit.

⑥ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑦ MULTI-ROOM REMOTE IN jack

Connect to the separately sold MR-100 Multi-Room remote control unit.

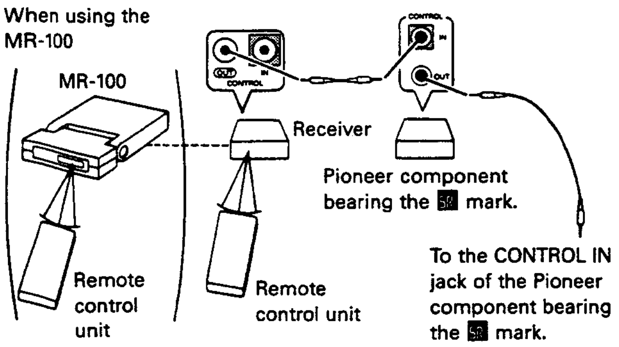
⑧ CONTROL IN/OUT jacks

IN : Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.

OUT : Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

NOTE:

The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.


When using the MR-100
MR-100
Remote control unit
CONTROL
IN
OUT
Receiver
Pioneer component bearing the ■ mark.
Remote control unit
To the CONTROL IN jack of the Pioneer component bearing the ■ mark.

⑨ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use center speaker with impedance of 8 Ω to 16 Ω.

⑩ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑪ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑫ CD input jacks

Connect to the output jacks of a compact disc player.

⑬ VIDEO input jacks (VSX–D603S model only)

Connect to the output jacks of video components.

⑭ TV/SAT jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑮ LD jacks

[VIDEO IN]

When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L,R)]

When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑯ VCR 1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑰ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω to 16 Ω.

⑱ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use speakers with impedance of 8 Ω to 16 Ω.

⑲ AC OUTLETS

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:

- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.*
  This can cause the receiver to malfunction.

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

⑳ Power cord

13. SPECIFICATIONS

Amplifier section

Continuous average power output of 130 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 % total harmonic distortion (front).**

Continuous Power Output (When using SURROUND MODE)	
(Rear only driven)	50 W (1 kHz, 0.8 %, 8 Ω)
(Front and Center driven)	
Front	100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
Center	100 W (1 kHz, 0.8 %, 8 Ω)
Dynamic Power (2 Ω/4 Ω)	300 W/290 W
Input (Sensitivity/Impedance)	
PHONO MM	2.8 mV/47 kΩ
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, VIDEO, TV/SAT	200 mV/47 kΩ
Phono Overload Level (T.H.D. 0.1 %, 1 kHz)	
PHONO MM	100 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ±0.3 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, VIDEO, TV/SAT	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
TAPE 1 REC, TAPE 2 REC	200 mV/2.2 kΩ
VCR 1 OUT, VCR 2 OUT	200 mV/2.2 kΩ
Tone Control	
BASS	±8 dB (150 Hz)
TREBLE	±8 dB (10 kHz)
SUPER BASS	+8 dB (80 Hz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	76 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO	97 dB
Signal-to-Noise Ratio (EIA, at 1 W 1kHz)	
PHONO MM	77 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO	80 dB

* ***Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.***

** ***Measured by Audio Spectrum Analyzer.***

VIDEO Section

Input (Sensitivity/Impedance)	
VCR 1, VCR 2, LD, VIDEO	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1, VCR 2, MONITOR	1 Vp-p/75 Ω
Frequency Response	
VCR 1, VCR 2, LD, VIDEO → MONITOR	5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio	55 dB
Cross Talk	55 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 16.8 dBf (1.9 μV/75 Ω) Stereo: 38.6 dBf (23.3 μV/75 Ω)
Signal-to-Noise Ratio	Mono: 80 dB (at 65 dBf) Stereo: 76 dB (at 85 dBf)
Distortion	Mono: 0.2 % (1 kHz) Stereo: 0.3 % (1 kHz)
Capture Ratio	1 dB
Alternate Channel Selectivity	65 dB (400 kHz)
Stereo Separation	45 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz $^{+0.5}_{-2.0}$ dB
Image Interference Ratio	50 dB
IF Interference Ratio	80 dB
Antenna Input	300 Ω balanced 75 Ω unbalanced

AM Tuner Section

Frequency Range	
With 9 kHz step	531 kHz to 1,602 kHz
With 10 kHz step	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	300 μV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	
U.S. Model	AC 120 V, 60 Hz
Multi-voltage Model	AC 110 V/120 — 127 V/220 V/240 V (Switchable), 50/60 Hz
Power Consumption	
U.S. Model	420 W
Multi-voltage Model	950 W
In Standby Condition	3 W
AC Outlets	
U.S. Model	
SWITCHED x 2	TOTAL 100 W (0.8 A) MAX
UNSWITCHED x 1	100 W (0.8 A) MAX
Multi-voltage Model	
SWITCHED x 2	TOTAL 100 W MAX
UNSWITCHED x 1	100 W MAX

Dimensions

VSX–D903S Model	420(W)×162(H)×425(D)mm 16-9/16(W)×6-3/8(H)×16-3/4(D)in
VSX–53 Model	440(W)×162(H)×425(D)mm 17-5/16(W)×6-3/8(H)×16-3/4(D)in
VSX–D703S and VSX–D603S Models	420(W)×162(H)×414(D)mm 16-9/16(W)×6-3/8(H)×16-5/16(D)in

Weight (without package)

VSX–D903S Model	13.0kg(28 lb 11oz)
VSX–53 Model	12.7kg(28 lb)
VSX–D703S Model	12.3kg(27 lb 2oz)
VSX–D603S Model	12.2kg(26 lb 14oz)

Furnished Parts

FM T-type Antenna	1
AM Loop Antenna	1
Dry Cell Batteries	2
Remote Control Unit	1
Operating Instructions	1

NOTE:
Specifications and the design are subject to possible modifications without notice due to improvements.

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